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**SONIC BOOM SIGNATURE DATA FROM CRUCIFORM  
MICROPHONE ARRAY EXPERIMENTS DURING THE  
1966-67 EAFB NATIONAL SONIC BOOM EVALUATION  
PROGRAM**

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(NASA-CR-182027) SONIC BOOM SIGNATURE DATA  
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## SUMMARY

This paper provides tables of measured sonic boom signature data derived from supersonic flyover tests of the XB-70, B-58 and F-104 aircraft for ranges of altitude and Mach number. These tables represent a convenient hard copy version of available electronic files and complement preliminary information included in a reference national sonic boom evaluation office document.

## INTRODUCTION

The contents of this paper are complementary to some of the material contained in a different format in reference 1 and to available electronic files. Reference 1 contains initial results of a large scale sonic boom research project covering some physical acoustics aspects as well as the effects of sonic booms on humans, animals and building structures. A major goal of the above project, which was conducted in two phases at Edwards Air Force Base, California, was to provide results that could be extrapolated to operations of supersonic transports which will be larger, heavier and generally faster than existing supersonic aircraft.

This paper relates to that portion of the sonic boom signature measurements that were obtained with a cruciform array of microphones for a large number of supersonic fly-over operations. Signature data are included for three different aircraft sizes and for different values of Mach number altitude and lateral distance; and these are collated with aircraft operating conditions. The data contained herein thus complement those of reference 1 and are provided in a more convenient format for analyses. They also

represent a convenient hard copy of the tabular sonic boom data available in the form of electronic files.

## APPARATUS AND METHODS

### Test Area

All tests were conducted in the general vicinity of Edwards AFB, California in the periods 4 to 23 June 1966 and 31 October 1966 to 17 January 1967. Measurements were made at a site on the western edge of Rogers Dry Lake (see fig. 1) at least 100 ft. from the nearest building structure. The test site was generally flat and at an elevation of about 2300 ft. above sea level.

### Test Airplanes

Photographs of the test airplanes are shown in figure 2. Test airplane (a), an F-104, 54.5 ft. long and having a gross weight of about 14000 lbs, was used in 124 flights. Mach number and altitude ranged from about 1.15 to 1.7 and about 21,200 ft. to 35,600 ft. respectively. Airplane (b), a B-58, 96.8 ft. long and having a gross weight of about 120,000 lbs was used in 169 flights. Mach number and altitude ranged from about 1.25 to 1.72 and about 31,000 ft. to 49,200 ft. respectively. Airplane (c) an XB-70, 185 ft long and having a gross weight of about 470,000 lbs was used in 19 flights. Mach number and altitude ranged from 1.38 to 2.83 and 31,800 ft. to 72,000 ft. respectively. Although most of the aircraft used during these tests were provided, maintained and operated by U. S. Air Force personnel, some aircraft were provided and operated by the NASA Flight Research Center.

## Airplane Positioning

The airplanes were positioned over the test area by means of ground control procedures with the aid of the radar tracking facilities at Edwards Air Force Base. The pilot was provided course corrections by the ground controller to the steady point indicated in figure 1 which is approximately 25 nautical miles east of the instrument array. Changes were not made beyond this point in order to minimize possible effects of such changes on the sonic boom ground pressure patterns in the test area. Radar plotting board overlays were obtained on all flights to provide information on aircraft position, altitude and speed. Pilot readout of indicated altitude, Mach number, heading and fuel remaining on board were obtained for each run at both the steady point and over the instrument array. Most test flights were accomplished along the projected ground track of figure 1 which brought the aircraft essentially over the microphone array. In an effort to change the overpressure values, a few B-58 and XB-70 test flights were made along ground tracks parallel to but respectively 5 miles and 13 miles north of that shown in figure 1.

## Surface Weather Observations

Surface weather observations were made routinely at 1-hour intervals at the Edwards Air Force Base Weather Facility located about two miles from the sonic boom measurement array. Observations of temperature; wind speed and direction; cloud cover; and precipitation are tabulated in Table 1 for the times closest to the test flights for which sonic boom data are included.

## Atmosphere Soundings

Rawinsonde observations from the Edwards Air Force Base weather facility were taken at approximately 1200 and 2400 hours local time (2000 and 0800 hours Zulu) each day. Measured values of temperature and pressure; and wind speed and direction; were provided along with calculated speed of sound at 1000 foot intervals to the airplane test altitude. Copies of the above sounding data from NOAA Archives are included in the electronic files for the days of the tests.

## Pressure Instrumentation

The microphone array is shown schematically in the inset of figure 1. Five microphones were located at ground level in a cruciform array at 100 ft separation distances. An additional mast microphone was suspended at a distance of 20 ft directly above the central ground microphone. This array was located on the projected ground track of the test flights and was employed to provide information about the wave shapes, wave angles, overpressures, durations, and rise times of the sonic boom signatures. Aircraft ground speeds were calculated as were the wave angles in both the horizontal and vertical planes, based on measured arrival times.

Each channel of the measuring system used in the experiments consisted of a specially modified microphone, tuning unit, dc amplifier, oscillograph recorder and FM magnetic tape recorder. The usable frequency range of the complete system including data reduction was 0.02 Hz to 5000 Hz.

Field calibrations by means of discrete frequency calibrators provided a system accuracy of  $\pm 1$  dB.

## PRESENTATION OF RESULTS

Data are presented in the tabular form from field experiments which were carried out during the periods 4 June to 23 June 1966 (called Phase I) and from 31 October to 17 January 1967 (called Phase II). The objective of these experiments was to obtain detailed measures of sonic boom signatures in time and space as functions of the type of aircraft, its mode of operation and the atmosphere through which the sonic booms traveled.

Measured signature data are presented in Tables 2 and 3 (from Phases I and II respectively) for ranges of aircraft gross weight from about 14,000 to 470,000 lbs, for ranges of altitude from about 21,000 to 72,000 ft. and for ranges of Mach number from about 1.15 to 2.8. Values of overpressure, rise time and duration are tabulated along with a signature (waveform) category descriptor. Figure 3 shows examples of the various categories of waveforms encountered and defines the other quantities for which values are listed in the tables. One, two or three letter descriptors are also provided.

The above tabulations include collated data from ref. 1 plus some additional rise time and waveform information not previously available. They constitute a hard copy version of the available electronic files. They are useful for defining the practical ranges of physical descriptors of sonic boom signatures as a basis for extrapolation to future aircraft of interest. They are also

useful for correlation with atmospheric observations and with the effects on people, structures and animals which are reported elsewhere (see refs. 1-4).

The data of Tables 2 and 3 were recorded at different times and the data formats were somewhat different. The following notes relate to the information listed in the tables and to its interpretation:

- Note that in Table 2 the missions are grouped by aircraft type and are then listed chronologically, whereas in Table 3 they are listed chronologically without regard for aircraft type.
- In the offset distance column the entry 0\* means that the mission was scheduled for overhead and was believed to have been essentially overhead, but no aircraft position records are available for that mission.
- The microphone arrays were identical for phases I and II even though the sequence of listing is different in Tables 1 and 2. Note that during Phase I operations, one or two microphones were sometimes removed from the array to be used elsewhere.
- A blank in Table 2 results from removal of a microphone from the array or from problems in recording or data processing.
- Double values are sometimes listed in Table 2 for overpressure and rise time. These infer the existence of double peaked waveform categories PP, SP, SPR, or PR and refer respectively to the first and second peaks.
- The column "rise time" in Table 2 is the same as tau max in Table 3. The tau 1/2 column is added to Table 3 to indicate rise time to half of the maximum overpressure.



- The only wave form categories listed in Table 2 are for the XB-70 data.
- Some minor errors in ref. 1 have been corrected. Thus, if discrepancies are noted in comparing ref. 1 or the electronic files with this report, the latter should prevail.
- All listed times are Zulu. Local times are Zulu minus 8 hours.

## REFERENCES

1. Anonymous: Sonic Boom Experiments at Edwards Air Force Base. National Sonic Boom Evaluation Office Report NSBEO-1-67, 28 July 1967.
2. Pierce, Allan D.; and Maglieri, Domenic J.: Effects of Atmospheric Irregularities on Sonic Boom Propagation. J. Acous Soc America, Vol 51, No. 2, Pt. 3, Feb 1972.
3. Kryter, K. D.; Johnson, P. J.; and Young, J. R.: Psychological Experiments on Sonic Booms Conducted at Edwards Air Force Base, Stanford Research Institute, August 1968.
4. Bell, Wilson B.: Animal Response to Sonic Booms. J. Acous Soc America, Vol. 51, No. 2, Pt. 3, Feb 1972, pp 758-765.

Table 1. - Summary of Surface Weather Observations

Date	Time Zulu	Temp F	Winds deg/knots	Cover	Precip	Date	Time Zulu	Temp F	Winds deg/knots	Cover	Precip
6-4-66	1756	78	270/12	CLEAR	NONE	11-15-66	1656	51	00/00	OVCST	NONE
6-6-66	1555	73	250/14	BROKN	NONE		1755	57	00/00	OVCST	NONE
	1757	78	230/18	BROKN	NONE		1855	64	00/00	OVCST	NONE
6-7-66	1555	64	250/18	CLEAR	NONE	11-16-66	1657	57	240/13	BROKN	NONE
	1656	68	250/15	CLEAR	NONE		1757	59	240/14	OVCST	NONE
	1755	71	260/11	CLEAR	NONE		1856	62	230/12	OVCST	NONE
6-8-66	1457	61	210/08	OVCST	NONE		1955	65	240/11	OVCST	NONE
	1556	65	230/08	OVCST	NONE	11-17-66	1756	62	240/12	CLEAR	NONE
	1634	67	210/08	OVCST	NONE	11-21-66	1655	49	240/12	CLEAR	NONE
	1655	68	240/08	OVCST	NONE		1855	55	240/20	CLEAR	NONE
6-9-66	1756	70	240/10	OVCST	NONE		1955	56	240/18	CLEAR	NONE
	1555	72	300/12	BROKN	NONE		2055	57	240/18	SCATD	NONE
	1657	74	300/09	BROKN	NONE	11-23-66	1756	44	00/00	CLEAR	NONE
	1757	77	290/02	BROKN	NONE		1856	47	00/00	CLEAR	NONE
6-13-66	1655	82	70/02	CLEAR	NONE	11-29-66	1656	57	250/09	CLEAR	NONE
	1757	87	00/00	CLEAR	NONE		1855	59	040/05	CLEAR	NONE
6-14-66	1555	78	00/00	CLEAR	NONE	11-30-66	1658	42	00/00	BROKN	NONE
	1756	89	00/00	CLEAR	NONE		1856	52	120/02	BROKN	NONE
6-15-66	1555	84	230/04	BROKN	NONE	12-2-66	1757	56	240/16	BROKN	NONE
	1655	91	030/12	BROKN	NONE		1856	56	250/20	OVCST	NONE
6-16-66	1557	80	230/07	CLEAR	NONE	12-6-66	1751	61	220/27	SCATD	NONE
6-20-66	1555	75	00/00	CLEAR	NONE	12-7-66	1656	45	290/12	CLEAR	NONE
	1655	81	00/00	CLEAR	NONE	12-8-66	1855	49	240/14	CLEAR	NONE
	1755	85	120/05	CLEAR	NONE		1656	47	290/14	CLEAR	NONE
6-21-66	1555	80	250/14	CLEAR	NONE		1757	49	300/13	CLEAR	NONE
	1655	84	250/16	CLEAR	NONE		1855	51	310/13	SCATD	NONE
	1755	87	250/16	SCATD	NONE		1955	52	300/06	SCATD	NONE
6-22-66	1955	93	240/15	SCATD	NONE	12-9-66	1655	33	170/02	OVCST	NONE
	1555	70	250/16	CLEAR	NONE		1855	41	00/00	OVCST	NONE
	1655	75	280/20	CLEAR	NONE	12-12-66	1755	42	00/00	OVCST	NONE
	1756	78	290/24	CLEAR	NONE		1855	42	110/02	OVCST	NONE
6-23-66	1855	79	280/24	CLEAR	NONE	12-16-66	1457	27	310/02	SCATD	NONE
	1555	75	250/16	CLEAR	NONE		1555	30	00/00	BROKN	NONE
	1956	85	290/22	CLEAR	NONE	12-20-66	1655	35	00/00	SCATD	NONE
10-31-66	1655	55	230/04	SCATD	NONE		1755	39	180/02	SCATD	NONE
	1755	63	240/03	SCATD	NONE		1955	49	040/02	SCATD	NONE
	1855	70	00/00	CLEAR	NONE		2055	53	040/04	SCATD	NONE
11-3-66	1856	68	00/00	BROKN	NONE	12-21-66	1555	38	330/04	SCATD	NONE
11-6-66	1755	56	250/20	OVCST	NONE		1655	43	00/00	SCATD	NONE
11-8-66	1637	**	220/13	BROKN	NONE	1-4-67	2055	48	00/00	SCATD	NONE
	1656	50	230/13	BROKN	NONE		2155	51	00/00	SCATD	NONE
	1756	53	260/15	BROKN	NONE	1-13-67	1758	46	230/02	OVCST	NONE
	1855	53	260/22	BROKN	NONE		1857	53	00/00	BROKN	NONE
	1955	54	260/20	BROKN	NONE	1-17-67	1756	46	030/06	CLEAR	NONE
11-10-66	1855	49	070/03	CLEAR	NONE		1856	51	030/06	CLEAR	NONE

Table 2. - Summary of Data - Phase I

Date	Mission Number	Air-craft	Alt. ft	Mach	Heading deg	Offset miles	Boom Time Zulu	Micro-phone No.	Delta Po psf	Delta T sec	Rise Time sec	Type Signature
6-4-66	13	XB-70	52920	1.81	243	2.50N	1728:00	MLC-1	2.370	0.2540	0.0125	NR
								MLC-5	**	**	**	**
								MLC-6	1.360	**	**	**
								MLC-2	2.590	0.2500	0.0070	NR
								MLC-3	2.720	0.2500	0.0060	NR
								MLC-4	2.420	0.2500	0.0035	NP
6-6-66	22	XB-70	72000	2.83	262	4.10N	1726:00	MLC-1	1.650	0.3175	0.0055	NP
								MLC-5	1.640	0.3175	0.0070	NP
								MLC-6	0.814	**	**	**
								MLC-2	1.530	0.3175	0.0050	NP
								MLC-3	1.680	0.3175	0.0050	NP
								MLC-4	1.700	0.3175	0.0070	NP
6-8-66	1	XB-70	31850	1.38	246	5.02S	1519:00	MLC-1	**	**	**	Noise
								MLC-5	2.350	0.2330	0.0300	R
								MLC-6	2.100	**	**	**
								MLC-2	2.280	0.2340	0.0320	R
								MLC-3	2.080	0.2330	0.0300	R
								MLC-4	2.380	0.2340	0.0280	R
6-6-66	39	B-58	31400	1.25	244	4.64N	1600:00	MLC-1	1.970	0.1850	0.0050	**
								MLC-5	1.880	0.1850	0.0240	**
								MLC-6	1.010	**	**	**
								MLC-2	2.230	0.1850	0.0020	**
								MLC-3	1.720	0.1850	0.0070	**
								MLC-4	1.980	0.1845	0.0230	**
6-8-66	40	B-58	31400	1.48	246	0.20N	1618:40	MLC-1	3.550	0.1575	0.0100	**
								MLC-5	3.360	0.1570	0.0115	**
								MLC-6	1.780	**	**	**
								MLC-2	3.210	0.1570	0.0070	**
								MLC-3	3.630	0.1570	0.0065	**
								MLC-4	3.520	0.1570	0.0150	**
6-6-66	71	B-58	14200	1.59	245	5.00N	1630:00	MLC-1	1.650	0.1790	0.0120	**
								MLC-5	1.880	0.1790	0.0170	**
								MLC-6	0.930	**	**	**
								MLC-2	1.720	0.1790	0.0120	**
								MLC-3	1.760	0.1780	0.0060	**
								MLC-4	1.780	0.1790	0.0160	**
6-6-66	41	B-58	31300	1.45	247	0.17N	1634:44	MLC-1	2.490	0.1540	0.0160	**
								MLC-5	2.560	0.1540	0.0170	**
								MLC-6	1.240	**	**	**
								MLC-2	2.330	0.1540	0.0150	**
								MLC-3	2.430	0.1540	0.0180	**
								MLC-4	2.640	0.1535	0.0160	**
6-6-66	72	B-58	43920	1.35	244	4.85N	1643:55	MLC-1	1.510	0.1720	0.0060	**
								MLC-5	2.640	0.1720	0.0050	**
								MLC-6	1.630	**	**	**
								MLC-2	2.090	0.1740	0.0010	**
								MLC-3	2.020	0.1720	0.0030	**
								MLC-4	1.780	0.1710	0.0050	**

Table 2. - (Cont.)

Date	Mission Number	Air-craft	Alt. ft	Mach	Heading deg	Offset miles	Boom Time Zulu	Micro-phone No.	Delta Po psf	Delta T sec	Rise Time sec	Type Signature
6-6-66	43	B-58	**	**	**	**	**	**	**	**	**	Missed Boom
		B-58	32440	1.30	242	0.72S	1701:52	MLC-1	3.160	0.1950	0.0140	**
	74							MLC-5	3.200	0.1940	0.0100	**
								MLC-6	1.670	**	**	**
								MLC-2	3.120	0.1940	0.0010	**
								MLC-3	3.330	0.1945	0.0060	**
44	B-58							MLC-4	3.090	0.1940	0.0090	**
								MLC-1	1.580	0.1970	0.0070	**
			43400	1.57	245	5.00N	1711:00	MLC-5	1.960	0.1960	0.0005	**
								MLC-6	1.160	**	**	**
								MLC-2	1.530	0.1960	0.0060	**
								MLC-3	1.650	0.1950	0.0005	**
75	B-58							MLC-4	1.900	0.1955	0.0040	**
								MLC-1	2.670	0.1570	0.0060	**
			31840	1.46	248	0	1717:00	MLC-5	3.000	0.1575	0.0040	**
								MLC-6	2.020	**	**	**
								MLC-2	3.020	0.1570	0.0010	**
								MLC-3				**
42	B-58							MLC-4	3.050	0.1575	0.0035	**
								MLC-1	1.830	0.1835	0.0065	**
			43300	1.53	245	0	1724:40	MLC-5	1.800	0.1830	0.0065	**
								MLC-6	0.930	**	**	**
								MLC-2	1.580	0.1830	0.0070	**
								MLC-3	1.650	0.1825	0.0110	**
73	B-58							MLC-4	1.980	0.1835	0.0065	**
			31860	1.43	247	0.25N	1731:30	MLC-1	2.950	0.1600	0.0060	**
								MLC-5				**
								MLC-6	2.290	**	**	**
								MLC-2	3.120	0.1600	0.0005	**
								MLC-3	3.030	0.1600	0.0060	**
76-A	B-58							MLC-4	3.250	0.1600	0.0040	**
			31560	1.48	241	1.09S	1610:40	MLC-1	2.880	0.1640	0.0065	**
								MLC-5	2.810	0.1635	0.0060	**
								MLC-6	1.610	**	**	**
								MLC-2	3.100	0.1640	0.0080	**
								MLC-3	4.510	0.1640	0.0015	**
45-B	B-58							MLC-4	3.470	0.1635	0.0040	**
			43660	1.70	244	4.95N	1623:50	MLC-1	1.750	0.1715	0.0050	**
								MLC-5	2.010	0.1720	0.0085	**
								MLC-6	1.060	**	**	**
								MLC-2	2.290	0.1710	0.0010	**
								MLC-3	2.270	0.1720	0.0055	**
77-B	B-58							MLC-4	1.960	0.1710	0.0090	**
			31680	1.51	244	0.10S	1633:12	MLC-1	2.480	0.1560	0.0110	**
								MLC-5	2.750	0.1560	0.0100	**
								MLC-6	1.480	**	**	**
								MLC-2	3.260	0.1550	0.0050	**
								MLC-3	3.240	0.1560	0.0050	**
								MLC-4	2.710	0.1565	0.0270	**

(10 N. ml East)

Table 2. - (Cont.)

Date	Mission Number	Air-craft	Alt. ft	Mach	Heading deg	Offset miles	Boom Time Zulu	Micro-phone No.	Delta Po psf	Delta T sec	Rise Time sec	Type Signature
6-7-66	46-B	B-58	43720	1.65	246	5.42N	1640:05	MLC-1	1.350	0.1715	0.0005	**
								MLC-5	1.620	0.1720	0.0110	**
								MLC-6	0.840	**	**	**
								MLC-2	1.400	0.1710	0.0030	**
								MLC-3	1.810	0.1700	0.0060	**
								MLC-4	1.710	0.1720	0.0060	**
								**	**	**	**	No Boom
								MLC-1	2.570	0.1700	0.0280	**
								MLC-5	2.490	0.1695	0.0290	**
								MLC-6	1.160	**	**	**
49-A	B-58	43340	1.43	252	4.68N	1728:15	1722:20	MLC-2	2.450	0.1690	0.0270	**
								MLC-3	2.450	0.1695	0.0140	**
								MLC-4	2.660	0.1690	0.0170	**
								MLC-1	1.410	0.2110	0.0400	**
								MLC-5	1.490	0.2120	0.0320	**
								MLC-6	1.420	**	**	**
								MLC-2	1.330	0.2075	0.0240	**
								MLC-3	1.390	0.2120	0.0450	**
								MLC-4	1.590	0.2115	0.0350	**
								MLC-1	2.590	0.1560	0.0085	**
80-A	B-58	31600	1.53	244	0.25N	1738:45		MLC-5	2.590	0.1555	0.0115	**
								MLC-6	1.350	**	**	**
								MLC-2	2.600	0.1565	0.0190	**
								MLC-3	3.110	0.1555	0.0140	**
								MLC-4	0.930	0.1970	0.0105	**
								MLC-1	0.938	0.1920	0.0200	**
								MLC-5	0.483	**	**	**
								MLC-6	1.020	0.1970	0.0450	**
								MLC-2	0.908	0.1995	0.0230	**
								MLC-3	1.150	0.1960	0.0490	**
81-A	B-58	31400	1.49	245	0.06S	1756:25		MLC-4	1.750	0.1510	0.0530	**
								MLC-1	2.070	0.1505	0.0420	**
								MLC-5	0.516	**	**	**
								MLC-6	1.800	0.1500	0.0500	**
								MLC-2	1.970	0.1510	0.0340	**
								MLC-3	2.290	0.1500	0.0470	**
								MLC-4	**	**	**	**
								MLC-1	1.700	0.1770	0.0150	**
								MLC-5	1.530	**	**	**
								MLC-6	1.740	0.1740	0.0120	**
6-8-66	43-A	B-58	42380	1.62	245	5.24N	1600:22	MLC-2	1.730	0.1760	0.0140	**
								MLC-3	1.630	0.1750	0.0120	**
								MLC-4	**	**	**	**
								MLC-1	3.520	0.1560	0.0055	**
								MLC-5	1.750	**	**	**
								MLC-6	3.180	0.1560	0.0115	**
								MLC-2	3.370	0.1565	0.0090	**
								MLC-3	3.150	0.1570	0.0070	**
								MLC-4				
75-A	B-58	31200	1.44	244	0.23N	1606:45		MLC-1	0.230	0.1560	0.0055	**
								MLC-5	1.750	**	**	**
								MLC-6	3.180	0.1560	0.0115	**
								MLC-2	3.370	0.1565	0.0090	**
								MLC-3	3.150	0.1570	0.0070	**
								MLC-4				

Table 2. - (Cont.)

Date	Mission Number	Air-craft	Alt. ft	Mach	Heading deg	Offset miles	Boom Time Zulu	Micro-phone No.	Delta Po psf	Delta T sec	Rise Time sec	Type Signature
6-8-66	42-A	B-58	43260	1.67	247	4.85N	1614:50	MLC-1	**	**	**	**
								MLC-5	2.090	0.1790	0.0090	**
								MLC-6	1.180	**	**	**
								MLC-2	2.730	0.1790	0.0060	**
73-A	B-58		31200	1.50	245	0.10N	1624:20	MLC-3	2.340	0.1790	0.0035	**
								MLC-4	2.060	0.1790	0.0080	**
								MLC-1	**	**	**	**
								MLC-5	2.350	0.1470	0.0155	**
41-A	B-58		43200	1.60	246	5.32N	1630:10	MLC-6	1.230	**	**	**
								MLC-2	2.230	0.1470	0.0110	**
								MLC-3	2.160	0.1460	0.0140	**
								MLC-4	2.230	0.1470	0.0160	**
72-A	B-58		31200	1.49	245	0.16N	1638:45	MLC-1	**	**	**	**
								MLC-5	2.960	0.1440	0.0060	**
								MLC-6	1.580	**	**	**
								MLC-2	2.880	0.1450	0.0040	**
57-RB	B-58		37600	1.66	248	5.90N	1705:10	MLC-3	3.240	0.1440	0.0020	**
								MLC-4	2.550	0.1450	0.0040	**
								MLC-1	**	**	**	**
								MLC-5	1.780	0.1610	0.0230	**
80-RB	B-58		31300	1.46	247	0.14N	1712:30	MLC-6	0.832	**	**	**
								MLC-2	2.180	0.1620	0.0030	**
								MLC-3	1.510	0.1630	0.0300	**
								MLC-4	1.670	0.1620	0.0085	**
56-RB	B-58		43040	1.64	244	5.14N	1721:22	MLC-1	**	**	**	**
								MLC-5	2.520	0.1610	0.0050	**
								MLC-6	1.310	**	**	**
								MLC-2	2.580	0.1600	0.0140	**
87-RB	B-58		31440	1.49	245	0.40N	1728:30	MLC-3	2.640	0.1600	0.0075	**
								MLC-4	3.150	0.1610	0.0025	**
								MLC-1	**	**	**	**
								MLC-5	2.610	0.1710	0.0040	**
								MLC-6	1.400	**	**	**
								MLC-2	2.080	0.1710	0.0135	**
								MLC-3	1.900	0.1690	0.0080	**
								MLC-4	2.060	0.1710	0.0065	**
								MLC-1	**	**	**	**
								MLC-5	3.090	0.1480	0.0175	**
								MLC-6	1.660	**	**	**
								MLC-2	4.270	0.1480	0.0010	**
								MLC-3	2.810	0.1480	0.0060	**
								MLC-4	3.190	0.1480	0.0170	**

Table 2. - (Cont.)

Date	Mission Number	Air-craft	Alt. ft	Mach	Heading deg	Offset miles	Boom Time Zulu	Micro-phone No.	Delta Po psf	Delta T sec	Rise time sec	Type Signature
6-8-66	55-RB	B-58	43200	1.64	244	5.16N	1736:10	MLC-1	**	**	**	**
								MLC-5	2.180	0.1700	0.0030	**
								MLC-6	1.710	**	**	**
								MLC-2	2.630	0.1690	0.0125	**
								MLC-3	2.680	0.1660	0.0015	**
								MLC-4	2.060	0.1690	0.0055	**
6-9-66	86-SRB	B-58	31360	1.49	229	0	1745:00	MLC-1	**	**	**	**
								MLC-5	2.870	0.1440	0.0090	**
								MLC-6	1.620	**	**	**
								MLC-2	2.630	0.1440	0.0110	**
								MLC-3	3.030	0.1440	0.0055	**
								MLC-4	2.480	0.1440	0.0060	**
	86-SRB	B-58	31000	1.50	246	0.25N	1608:30	MLC-1	3.820	0.1530	0.0055	**
								MLC-5	3.720	0.1530	0.0050	**
								MLC-6	1.940	**	**	**
								MLC-2	4.090	0.1530	0.0045	**
								MLC-3	5.320	0.1520	0.0050	**
								MLC-4	3.310	0.1525	0.0040	**
55-SRB	B-58	35720	1.69	244	5.17N	1619:20		MLC-1	1.420	0.1395	0.0320	**
								MLC-5	1.460	0.1395	0.0300	**
								MLC-6	0.740	**	**	**
								MLC-2	1.430	0.1405	0.0300	**
								MLC-3	1.750	0.1395	0.0085	**
								MLC-4	1.560	0.1405	0.0310	**
87-SRB	B-58	31000	1.53	244	0.08S	1625:58		MLC-1	3.020	0.1470	0.0150	**
								MLC-5	2.930	0.1460	0.0060	**
								MLC-6	1.580	**	**	**
								MLC-2	3.120	0.1455	0.0050	**
								MLC-3	3.720	0.1465	0.0060	**
								MLC-4	4.020	0.1460	0.0010	**
56-SRB	B-58	43300	1.72	243	4.70N	1634:50		MLC-1	3.110	0.1605	0.0020	**
								MLC-5	2.640	0.1610	0.0050	**
								MLC-6	1.340	**	**	**
								MLC-2	2.460	0.1615	0.0035	**
								MLC-3	2.980	0.1620	0.0075	**
								MLC-4	2.630	0.1610	0.0040	**
80-SRB	B-58	31000	1.53	245	0.06N	1641:40		MLC-1	2.790	0.1405	0.0060	**
								MLC-5	3.120	0.1400	0.0070	**
								MLC-6	2.180	**	**	**
								MLC-2	2.460	0.1400	0.0210	**
								MLC-3	3.610	0.1400	0.0030	**
								MLC-4	2.630	0.1405	0.0240	**
57-SRB	B-58	43100	1.70	244	5.23N	1649:10		MLC-1	1.600	0.1505	0.0085	**
								MLC-5	1.560	0.1495	0.0055	**
								MLC-6	0.838	**	**	**
								MLC-2	1.990	0.1500	0.0120	**
								MLC-3	2.120	0.1500	0.0040	**
								MLC-4	1.940	0.1500	0.0180	**



Table 2. - (Cont.)

Date	Mission Number	Air-craft	Alt. ft	Mach	Heading deg	Offset miles	Boom Time Zulu	Micro-phone No.	Delta Po psf	Delta T sec	Rise Time sec	Type Signature
6-9-66	41-SA	B-58	42920	1.52	240	4.87N	1707:54	MLC-1	1.750	0.1800	0.0110	**
								MLC-5	2.930	0.1805	0.0010	**
								MLC-6	1.740	**	**	**
								MLC-2	1.790	0.1805	0.0050	**
								MLC-3	2.230	0.1810	0.0045	**
								MLC-4	2.190	0.1805	0.0020	**
73-SA	B-58		31720	1.50	243	0.49S	1716:15	MLC-1	3.050	0.1560	0.0170	**
								MLC-5	2.830	0.1555	0.0045	**
								MLC-6	1.470	**	**	**
								MLC-2	2.690	0.1550	0.0045	**
								MLC-3	3.610	0.1550	0.0140	**
								MLC-4	2.760	0.1550	0.0180	**
42-SA	B-58		43060	1.52	241	4.69N	1723:54	MLC-1	1.990	0.1755	0.0150	**
								MLC-5	2.040	0.1760	0.0180	**
								MLC-6	1.210	**	**	**
								MLC-2	2.230	0.1760	0.0050	**
								MLC-3	2.490	0.1760	0.0175	**
								MLC-4	2.080	0.1760	0.0015	**
75-SA	B-58		31680	1.55	246	0	1731:23	MLC-1	3.680	0.1490	0.0030	**
								MLC-5				**
								MLC-6	1.810	**		**
								MLC-2	2.990	0.1488	0.0030	**
								MLC-3	4.240	0.1485	0.0120	**
								MLC-4	3.780	0.1490	0.0040	**
72-SA 43-SA	B-58		43000	1.68	243	4.62N	1739:00	**	**	**	**	Aborted
								MLC-1	3.500	0.1570	0.0030	**
								MLC-5	2.350	0.1565	0.0010	**
								NMC-6	1.170	**	**	**
								MLC-2	2.990	0.1570	0.0040	**
								MLC-3	2.310	0.1570	0.0010	**
42-SA	B-58		43300	1.70	244	4.92N	1757:00	MLC-4	3.010	0.1570	0.0020	**
								MLC-1	1.870	0.1645	0.0070	**
								MLC-5	2.070	0.1660	0.0110	**
								MLC-6	1.010	**	**	**
								MLC-2	1.660	0.1645	0.0170	**
								MLC-3	2.050	0.1655	0.0110	**
46-SA	B-58		42900	1.68	246	4.74N	1811:10	MLC-4	1.810	0.1665	0.0130	**
								MLC-1	1.690	0.1560	0.0220	**
								MLC-5	1.690	0.1555	0.0080	**
								MLC-6	0.972	**	**	**
								MLC-2	2.260	0.1565	0.0070	**
								MLC-3	2.830	0.1560	0.0060	**
72-SA	B-58		31320	1.53	248	0.63N	1822:10	MLC-4	1.970	0.1565	0.0205	**
								MLC-1	2.190	0.1455	0.0145	**
								MLC-5	2.290	0.1430	0.0160	**
								MLC-6	1.170	**	**	**
								MLC-2	1.890	0.1450	0.0095	**
								MLC-3	2.570	0.1450	0.0170	**
								MLC-4	2.160	0.1455	0.0190	**

Table 2. - (Cont.)

Date	Mission Number	Air-craft	Alt. ft	Mach	Heading deg	Offset miles	Boom Time Zulu	Micro-phone No.	Delta Po psf	Delta T sec	Rise Time sec	Type Signature
6-13-66	18-A	B-58	37740	1.64	231	0.09S	1646:43	MLC-1	2.590	0.1605	0.0050	**
								MLC-5				**
								MLC-6	1.850	**	**	**
								MLC-2	2.710	0.1600	0.0035	**
								MLC-3	2.830	0.1600	0.0003	**
18-B	B-58		49600	1.66	234	0.36S	1649:22	MLC-4	2.780	0.1600	0.0040	**
								MLC-1	2.160	0.1955	0.0005	**
								MLC-5	1.960	0.1955	0.0050	**
								MLC-6	1.040	**	**	**
								MLC-2	1.880	0.1950	0.0055	**
21-A	B-58		37840	1.69	230	0.21S	1700:16	MLC-3	2.000	0.1955	0.0070	**
								MLC-4	2.310	0.1955	0.0035	**
								MLC-1	3.000	0.1455	0.0005	**
								MLC-5	2.550	0.1460	0.0065	**
								MLC-6	1.340	**	**	**
21-B	B-58		49160	1.72	231	0.35S	1702:48	MLC-2	2.760	0.1460	0.0035	**
								MLC-3	2.980	0.1460	0.0040	**
								MLC-4	2.940	0.1460	0.0050	**
								MLC-1	1.830	0.1950	0.0045	**
								MLC-5	1.840	0.1950	0.0040	**
29-A	B-58		49300	1.67	233	0.03N	1806:25	MLC-6	0.936	**	**	**
								MLC-2	1.830	0.1945	0.0045	**
								MLC-3	1.980	0.1950	0.0040	**
								MLC-4	2.030	0.1950	0.0045	**
								MLC-1	1.830	0.1950	0.0055	**
29-B	B-58		38140	1.67	232	0.11S	1807:35	MLC-5	2.010	0.1950	0.0035	**
								MLC-6	1.040	**	**	**
								MLC-2	1.730	0.1955	0.0040	**
								MLC-3	2.030	0.1950	0.0055	**
								MLC-4	1.840	0.1955	0.0130	**
32-A	B-58		49820	1.64	235	0.53N	1820:25	MLC-1		0.1560	0.0045	**
								MLC-5	3.070			**
								MLC-6	1.520	**	**	**
								MLC-2	2.580	0.1555	0.0035	**
								MLC-3	2.660	0.1560	0.0090	**
32-B	B-58		38000	1.67	233	0	1821:10	MLC-4				**
								MLC-1	2.350	0.1490	0.0150	**
								MLC-5	2.40/2.500	0.1490	.0002/0.0040	**
								MLC-6	1.310	**	**	**
								MLC-2	2.060	0.1490	0.0040	**
								MLC-3	2.390	0.1490	0.0050	**
								MLC-4	2.560	0.1490	0.0035	**

Table 2. - (Cont.)

Date	Mission Number	Air-craft	Alt. ft	Mach	Heading deg	Offset miles	Boom Time Zulu	Micro-phone No.	Delta Po psf	Delta T sec	Rise Time sec	Type Signature
6-20-66	48-A	B-58	41300	1.55	232	2.20N	1554:50	MLC-1	2.710	0.1790	0.0050	**
								MLC-5	2.610	0.1790	0.0040	**
								MLC-6	1.400	**	**	**
								MLC-2	2.520	0.1785	0.0050	**
								MLC-3	2.660	0.1790	0.0050	**
								MLC-4	2.930	0.1775	0.0050	**
79-A	B-58	32100	1.45	232	1.90S	1608:00	MLC-1	2.570	0.1535	0.0020	**	
							MLC-5	2.520	0.1535	0.0040	**	
							MLC-6	1.370	**	**	**	
							MLC-2	2.270	0.1535	0.0060	**	
							MLC-3	2.540	0.1535	0.0050	**	
							MLC-4	2.500	0.1535	0.0050	**	
53-A	B-58	42700	1.59	232	5.00N	1618:54	MLC-1	1.490	0.1755	0.0200	**	
							MLC-5	1.490	0.1755	0.0200	**	
							MLC-6	0.588	**	**	**	
							MLC-2	1.390	0.1755	0.0210	**	
							MLC-3	1.540	0.1750	0.0230	**	
							MLC-4	1.430	0.1755	0.0210	**	
84-A	B-58	31220	1.43	236	0	1627:10	MLC-1	2.680	0.1445	0.0015	**	
							MLC-5	2.580	0.1445	0.0170	**	
							MLC-6	1.370	**	**	**	
							MLC-2	2.360	0.1445	0.0040	**	
							MLC-3	2.660	0.1440	0.0155	**	
							MLC-4	2.590	0.1445	0.0190	**	
54-A	B-58	43000	1.59	230	4.87N	1635:40	MLC-1	1.280	0.1640	0.0065	**	
							MLC-5	1.310	0.1635	0.0075	**	
							MLC-6	0.718	**	**	**	
							MLC-2	1.360	0.1640	0.0050	**	
							MLC-3	1.420	0.1645	0.0055	**	
							MLC-4	1.490	0.1645	0.0065	**	
59-B	B-58	43360	1.41	233	5.00N	1710:00	MLC-1	2.310	0.2175	0.0070	**	
							MLC-5	2.310	0.2176	0.0100	**	
							MLC-6	1.010	**	**	**	
							MLC-2	2.210	0.2180	0.0050	**	
							MLC-3	2.240	0.2180	0.0075	**	
							MLC-4	2.470	0.2175	0.0045	**	
98-B	B-58	31340	1.50	233	0	1715:45	MLC-1	3.270	0.1545	0.0025	**	
							MLC-3	3.040	0.1335	0.0050	**	
							MLC-6	1.500	**	**	**	
							MLC-2	2.740	0.1545	0.0040	**	
							MLC-3	3.250	0.1545	0.0060	**	
							MLC-4	2.960	0.1345	0.0040	**	
60-B 90-B	** B-58	** 31800	** 1.55	** 230	** 0.17S	** 1732:00	**	**	**	**	No Boom	
							MLC-1	2.740	0.1450	0.0160	**	
								MLC-5	2.760	0.1450	0.0135	**
								MLC-6	1.310	**	**	**
								MLC-2	2.680	0.1455	0.0040	**
								MLC-3	3.160	0.1450	0.0020	**
								MLC-4	2.620	0.1455	0.0110	**

Table 2. - (Cont.)

Date	Mission Number	Air-craft	Alt. ft	Mach	Heading deg	Offset miles	Boom Time Zulu	Micro-phone No.	Delta Po psf	Delta T sec	Rise Time sec	Type Signature
6-20-66	85-A	B-58	32320	1.45	231	4.35N	1740:00	MLC-1	2.220	0.1430	0.0160	**
								MLC-5	2.370	0.1420	0.0115	**
								MLC-6	1.270	**	**	**
								MLC-2	2.330	0.1435	0.0145	**
								MLC-3	2.660	0.1420	0.0110	**
								MLC-4	2.380	0.1435	0.0160	**
93-B	B-58		32140	1.55	231	0.17S	1747:50	MLC-1	2.480	0.1415	0.0050	**
								MLC-5	2.860	0.1410	0.0080	**
								MLC-6	1.470	**	**	**
								MLC-2	2.840	0.1415	0.0130	**
								MLC-3	2.920	0.1410	0.0060	**
								MLC-4	3.320	0.1405	0.0045	**
6-21-66	89-B	B-58	31760	1.46	232	0.12N	1601:55	MLC-1	2.840	0.1510	0.0180	**
								MLC-5	2.650	0.1515	0.0070	**
								MLC-6	1.460	**	**	**
								MLC-2	3.000	0.1520	0.0140	**
								MLC-3	2.670	0.1510	0.0130	**
								MLC-4	2.980	0.1515	0.0120	**
58-B	B-58		43600	1.67	233	5.12N	1611:02	MLC-1	1.930	0.1750	0.0060	**
								MLC-5	2.200	0.1745	0.0020	**
								MLC-6	1.260	**	**	**
								MLC-2	1.550	0.1750	0.0120	**
								MLC-3	1.790	0.1745	0.0020	**
								MLC-4	1.910	0.1750	0.0075	**
99-B	B-58		31700	1.47	233	0.17N	1617:05	MLC-1	2.660	0.1485	0.0250	**
								MLC-5				**
								MLC-6	1.780	**	**	**
								MLC-2	2.710	0.1485	0.0020	**
								MLC-3	3.190	0.1485	0.0015	**
								MLC-4	3.890	0.1480	0.0040	**
66-B	B-58		39860	1.59	233	5.00N	1625:17	MLC-1	1.180	0.1670	0.0250	**
								MLC-5	1.160	0.1675	0.0060	**
								MLC-6	0.575	**	**	**
								MLC-2	1.080	0.1675	0.0125	**
								MLC-3	1.140	0.1670	0.0250	**
								MLC-4	1.190	0.1665	0.0300	**
100-B	B-58		31760	1.46	232	0.14S	1630:23	MLC-1	3.550	0.1470	0.0025	**
								MLC-5	2.960	0.1465	0.0040	**
								MLC-6	1.390	**	**	**
								MLC-2	2.460	0.1465	0.0050	**
								MLC-3	2.480	0.1460	0.0100	**
								MLC-4	3.540	0.1465	0.0050	**
68-B	B-58		44080	1.62	232	4.83N	1639:19	MLC-1	1.320	0.1675	0.0050	**
								MLC-5	1.440	0.1670	0.0070	**
								MLC-6	0.732	**	**	**
								MLC-2	1.280	**	0.0120	**
								MLC-3	1.550	0.1670	0.0060	**
								MLC-4	1.440	0.1665	0.0010	**

Table 2. - (Cont.)

Date	Mission Number	Air-craft	Alt. ft	Mach	Heading deg	Offset miles	Boom Time Zulu	Micro-phone No.	Delta Po psf	Delta T sec	Rise Time sec	Type Signature
6-21-66	69-A	B-58	39440	1.39	233	5.00N	1729:35	MLC-1	1.590	0.1855	0.0230	**
								MLC-5	1.590	0.1860	0.0080	**
								MLC-6	0.837	**	**	**
								MLC-2	1.580	0.1855	0.0180	**
								MLC-3	1.600	0.1855	0.0160	**
								MLC-4	1.660	0.1855	0.0130	**
48-A	B-58		43140	1.60	232	5.00N	1744:12	MLC-1	1.450	0.1780	0.0030	**
								MLC-5	1.570	0.1775	0.0260	**
								MLC-6	0.785	**	**	**
								MLC-2	1.160	0.1775	0.0110	**
								MLC-3	1.810	0.1770	0.0020	**
								MLC-4	1.440	0.1775	0.0220	**
40-A	B-58		43840	1.65	235	5.40N	1756:55	MLC-1	1.550	0.1710	0.0120	**
								MLC-5	1.770	0.1710	0.0060	**
								MLC-6	1.050	**	**	**
								MLC-2	1.870	0.1710	0.0050	**
								MLC-3	1.880	0.1705	0.0090	**
								MLC-4	1.960	0.1710	0.0065	**
60-B	B-58		43940	1.64	233	5.16N	1808:59	MLC-1	1.550	0.1650	0.0070	**
								MLC-5	1.460	0.1650	0.0130	**
								MLC-6	0.759	**	**	**
								MLC-2	2.240	0.1655	0.0040	**
								MLC-3	1.430	0.1655	0.0170	**
								MLC-4	1.820	0.1650	0.0095	**
61-B	B-58		43260	1.62	232	4.76N	1937:19	MLC-1	2.460	0.1825	0.0080	**
								MLC-5	2.050	0.1815	0.0110	**
								MLC-6	1.100	**	**	**
								MLC-2	3.320	0.1815	0.0025	**
								MLC-3	1.930	0.1805	0.0200	**
								MLC-4	2.380	0.1810	0.0070	**
101-B	B-58		31700	1.50	233	0	1951:15	MLC-1	2.680	0.1485	0.0190	**
								MLC-5	2.680	0.1485	0.0150	**
								MLC-6	1.390	**	**	**
								MLC-2	2.490	0.1480	0.0190	**
								MLC-3	2.720	0.1490	0.0010	**
								MLC-4	2.760	0.1485	0.0200	**
85-A	B-58		31700	1.50	234	0.22N	2005:50	MLC-1	2.230	0.1460	0.0230	**
								MLC-5	3.740	0.1460	0.0200	**
								MLC-6	1.570	**	**	**
								MLC-2	2.640	0.1455	0.0090	**
								MLC-3	2.550	0.1460	0.0050	**
								MLC-4	3.120	0.1455	0.0070	**
6-22-66	28-A	B-58	37000	1.63	234	0.18N	1613:27	MLC-1	2.260	0.1620	0.0130	**
								MLC-5	2.730	0.1620	0.0115	**
								MLC-6	1.450	**	**	**
								MLC-2	2.360	0.1630	0.0245	**
								MLC-3	3.290	0.1625	0.0080	**
								MLC-4	2.620	0.1620	0.0170	**

Table 2. - (Cont.)

Date	Mission Number	Air-craft	Alt. ft	Mach	Heading deg	Offset miles	Boom Time Zulu	Micro-phone No.	Delta Po psf	Delta T sec	Rise Time sec	Type Signature
6-22-66	19-A	B-58	37200	1.64	233	0.24N	1628:15	MLC-1	2.300	0.1555	0.0155	**
								MLC-5	2.020	0.1560	0.0150	**
								MLC-6	1.080	**	**	**
								MLC-2	2.200	0.1560	0.0260	**
								MLC-3	1.780	0.1565	0.0085	**
								MLC-4	2.040	0.1560	0.0135	**
6-X	B-58		43560	1.60	259	1.34S	1648:24	MLC-1	2.480	0.1670	0.0060	**
								MLC-5	3.360	0.1670	0.0115	**
								MLC-6	2.480	**	**	**
								MLC-2	1.790	0.1665	0.0245	**
								MLC-3	5.060	0.1670	0.0055	**
								MLC-4	4.120	0.1670	0.0160	**
30-A	B-58		37400	1.65	230	0.20S	1743:34	MLC-1	2.210	0.1630	0.0080	**
								MLC-5	1.920	0.1635	0.0320	**
								MLC-6	1.010	**	**	**
								MLC-2	1.980	0.1630	0.0185	**
								MLC-3	2.100	0.1630	0.0295	**
								MLC-4	1.930	0.1625	0.0045	**
34-B	B-58		43100	1.61	230	4.00N	1757:06	MLC-1	1.440	0.1690	0.0180	**
								MLC-5	1.360	0.1700	0.0240	**
								MLC-6	0.800	**	**	**
								MLC-2	1.740	**	0.0105	**
								MLC-3	1.590	0.1700	0.0030	**
								MLC-4	1.440	0.1700	0.0165	**
24-A	B-58		43300	1.60	233	5.06N	1810:37	MLC-1	1.580	**	0.0210	**
								MLC-5	1.590	**	0.0310	**
								MLC-6	1.340	**	**	**
								MLC-2	1.280	**	0.0220	**
								MLC-3	1.470	**	0.0160	**
								MLC-4	1.550	**	0.0225	**
35-A	B-58		43400	1.60	225	0.92S	1821:21	MLC-1	1.150	0.1650	0.0225	**
								MLC-5	1.190	0.1650	0.0175	**
								MLC-6	1.010	**	**	**
								MLC-2	0.989	0.1650	0.0365	**
								MLC-3	1.570	0.1645	0.0155	**
								MLC-4	1.350	0.1650	0.0280	**
25-B	B-58		43220	1.59	233	4.89N	1837:59	MLC-1	1.690	0.1790	0.0135	**
								MLC-5	1.670	0.1795	0.0165	**
								MLC-6	0.852	**	**	**
								MLC-2	1.230	0.1800	0.0090	**
								MLC-3	1.660	0.1785	0.0175	**
								MLC-4	1.440	0.1795	0.0100	**
23-B	B-58		37440	1.63	232	0.50N	1852:08	MLC-1	2.730	0.1570	0.0055	**
								MLC-5	2.450	0.1580	0.0090	**
								MLC-6	1.210	**	**	**
								MLC-2	2.050	0.1570	0.0075	**
								MLC-3	2.360	0.1580	0.0145	**
								MLC-4	2.600	0.1570	0.0125	**

No Time,  
Could Not Read.

Table 2. - (Cont.)

Date	Mission Number	Air-craft	Alt. ft	Mach	Heading deg	Offset miles	Boom Time Zulu	Micro-phone No.	Delta Po psf	Delta T sec	Rise Time sec	Type Signature
6-23-66	17-A	B-58	37600	1.64	231	0.39N	1546:05	MLC-1	2.380	0.1625	0.0035	**
								MLC-5	2.24/2.370	0.1620	.005/0.0065	**
								MLC-6	1.170	**	**	**
								MLC-2	2.17/2.220	0.1620	0.10/0.0140	**
								MLC-3	2.350	0.1620	0.0045	**
								MLC-4	2.920	0.1620	0.0010	**
	22-B	B-58	43360	1.67	229	4.25N	1600:40	MLC-1	1.13/1.430	0.1685	.0025/0.0160	**
								MLC-5	1.460	0.1680	0.0065	**
								MLC-6	0.859	**	**	**
								MLC-2	1.53/1.870	0.1680	.0025/0.0055	**
								MLC-3	.877/1.600	0.1680	.002/0.0100	**
								MLC-4	1.760	0.1680	0.0055	**
31-A		B-58	37480	1.64	231	0.12N	1612:14	MLC-1	1.11/1.920	0.1550	.0025/0.0160	**
								MLC-5	1.80/1.950	0.1550	.007/0.0110	**
								MLC-6	0.990	**	**	**
								MLC-2	2.120	0.1550	0.0060	**
								MLC-3	2.030	0.1540	0.0080	**
								MLC-4	1.79/1.900	0.1550	.0015/0.0150	**
	33-A	B-58	43200	1.64	232	5.02N	1621:38	MLC-1	1.200	0.1630	0.0050	**
								MLC-5	1.20/1.280	0.1640	.004/0.0070	**
								MLC-6	0.755	**	**	**
								MLC-2	1.03/1.260	0.1620	.0055/0.0130	**
								MLC-3	.701/1.250	0.1630	.002/0.0130	**
								MLC-4	1.300	0.1640	0.0060	**
20-B		B-58	37400	1.65	233	0.10N	1954:17	MLC-1	1.67/1.930	0.1590	.006/0.0190	**
								MLC-5	1.880	0.1590	0.0050	**
								MLC-6	1.070	**	**	**
								MLC-2	1.97/2.270	0.1590	.003/0.0130	**
								MLC-3	2.260	0.1595	0.0070	**
								MLC-4	2.170	0.1590	0.0095	**
	36-B	B-58	37400	1.66	231	0.25S	2006:26	MLC-1	4.370	0.1600	0.0150	**
								MLC-5	5.110	0.1605	0.0060	**
								MLC-6	2.690	**	**	**
								MLC-2	4.240	0.1600	0.0025	**
								MLC-3	7.650	0.1595	0.0050	**
								MLC-4	6.120	0.1600	0.0050	**
6X-2		B-58	43520	1.67	258	9.86N	2021:21	MLC-1	1.610	0.1680	0.0190	**
								MLC-5	1.520	0.1680	0.0190	**
								MLC-6	**	**	**	**
								MLC-2	2.270	0.1680	0.0060	**
								MLC-3	1.510	0.1675	0.0135	**
								MLC-4	2.040	0.1680	0.0125	**
	14	F-104	35600	1.70	**	**	**	MLC-1	1.190	0.0870	**	**
								MLC-5	1.160	0.0870	**	**
								MLC-6	0.622	**	**	**
								MLC-2	1.300	0.0870	**	**
								MLC-3	1.260	0.0870	**	**
								MLC-4	1.040	0.0870	**	**

No Tracking

Table 2. - (Cont.)

Date	Mission Number	Air-craft	Alt. ft	Mach	Heading deg	Offset miles	Boom Time Zulu	Micro-phone No.	Delta Po psf	Delta T sec	Rise Time sec	Type Signature								
6-13-66	26-A	F-104	21200	1.40	231	0.08N	1712:35	MLC-1	1.750	0.0735	0.0055	**								
								MLC-5	1.740	0.0730	0.0055	**								
								MLC-6	0.883	**	**	**								
								MLC-2	1.880	0.0735	0.0035	**								
								MLC-3	1.880	0.0735	0.0035	**								
								MLC-4	1.930	0.0740	0.0035	**								
6-14-66	26-B	F-104	29660	1.60	**	0.64S	1713:45	**	**	**	**	Missed Boom No Tracking								
								**	**	**	**									
								MLC-1	2.100	0.0720	**		**							
								MLC-5	2.280	0.0720	**		**							
								MLC-6	1.030	**	**		**							
								MLC-2	1.720	0.0715	**		**							
								MLC-3	2.150	0.0720	**		**							
								MLC-4	2.150	0.0725	**		**							
								MLC-1	1.610	0.0800	0.0065		**							
								MLC-5	1.430	0.0795	0.0055		**							
								MLC-6	0.814	**	**		**							
								MLC-2	1.480	0.0790	0.0130		**							
38-A	F-104	F-104	**	**	**	**	1745:00	MLC-3	1.450	0.0795	0.0070	**								
								MLC-4	1.430	0.0790	0.0060	**								
								MLC-1	2.070	0.0740	0.0040	**								
								MLC-5	2.100	0.0740	0.0055	**								
								MLC-6	1.080	**	**	**								
								MLC-2	1.940	0.0735	0.0060	**								
38-B	F-104	F-104	29700	1.52	233	0	1745:45	MLC-3	1.940	0.0740	0.0040	**								
								MLC-4	2.350	0.0740	0.0045	**								
								MLC-1	1.490	0.0795	0.0190	**								
								MLC-5	1.360	0.0785	0.0135	**								
								MLC-6	0.788	**	**	**								
								MLC-2	1.630	0.0790	0.0085	**								
37-A	F-104	F-104	29700	1.49	231	0	1757:30	MLC-3	1.360	0.0795	0.0095	**								
								MLC-4	1.620	0.0795	0.0115	**								
								MLC-1	1.300	0.0790	0.0090	**								
								MLC-5	1.190	0.0795	0.0040	**								
								MLC-6	0.788	**	**	**								
								MLC-2	1.410	0.0790	0.0040	**								
37-B	F-104	F-104	21080	1.39	231	0.02S	1758:40	MLC-3	1.280	0.0790	0.0080	**								
								MLC-4	1.560	0.0795	0.0070	**								
								MLC-1	2.600	0.0750	0.0040	**								
								MLC-5	1.340	**	**	**								
								MLC-6	2.670	0.0750	0.0015	**								
								MLC-2	**	**	**	**								
6-15-66	1X-A	F-104	14080	1.21	236	0.47N	1614:50	MLC-4	2.990	0.0750	0.0040	**								
								MLC-1	4.240	0.0800	0.0005	**								
								MLC-5	3.750	0.0795	0.0045	**								
								MLC-6	1.990	**	**	**								
								MLC-2	3.170	0.0800	0.0035	**								
								MLC-3	4.400	0.0800	0.0005	**								
								MLC-4	3.460	0.0795	0.0040	**								
								6-15-66	1X-A	F-104	14080	1.21	236	0.47N	1614:50	MLC-1	2.990	0.0750	0.0040	**
																MLC-4	4.240	0.0800	0.0005	**
																MLC-5	3.750	0.0795	0.0045	**
																MLC-6	1.990	**	**	**
																MLC-2	3.170	0.0800	0.0035	**
MLC-3	4.400	0.0800	0.0005	**																



Table 2. - (Cont.)

Date	Mission Number	Air-craft	Alt. ft	Mach	Heading deg	Offset miles	Boom Time Zulu	Micro-phone No.	Delta Po psf	Delta T sec	Rise Time sec	Type Signature
6-15-66	1X-B	F-104	28140	1.50	233	0.13N	1616:40	MLC-1	1.320	0.0790	0.0090	**
								MLC-5	1.500	0.0790	0.0050	**
								MLC-6	0.831	**	**	**
								MLC-2	1.620	0.0785	0.0005	**
								MLC-3	1.360	0.0790	0.0055	**
								MLC-4	1.520	0.0785	0.0055	**
								MLC-1	1.620	0.0900	0.0140	**
								MLC-5	1.630	0.0900	0.0115	**
								MLC-6	**	**	**	**
								MLC-2	1.550	0.0905	0.0070	**
	2X-A	F-104	29700	1.32	237	0.66N	1621:40	MLC-3	1.690	0.0900	0.0090	**
								MLC-4	1.760	0.0905	0.0125	**
								MLC-1	4.270	0.0790	0.0035	**
								MLC-5	4.440	0.0790	0.0040	**
								MLC-6	2.130	**	**	**
								MLC-2	4.300	0.0790	0.0040	**
								MLC-3	4.400	0.0795	0.0040	**
								MLC-4	4.300	0.0790	0.0035	**
								MLC-1	1.150	0.0750	0.0135	**
								MLC-5	1.190	0.0755	0.0105	**
	3X-A	F-104	29100	1.58	234	0.17N	1638:25	MLC-6	0.631	**	**	**
								MLC-2	1.390	0.0745	0.0105	**
								MLC-3	1.200	0.0755	0.0080	**
								MLC-4	1.230	0.0750	0.0095	**
								MLC-1	2.350	0.0770	0.0060	**
								MLC-5	2.280	0.0770	0.0060	**
								MLC-6	1.200	**	**	**
								MLC-2	2.100	0.0770	0.0115	**
								MLC-3	2.290	0.0770	0.0100	**
								MLC-4	2.170	0.0775	0.0060	**
	3X-B	F-104	14200	1.15	235	0.18N	1639:55	MLC-1	3.380	0.0675	0.0015	**
								MLC-5	3.280	0.0685	0.0055	**
								MLC-6	1.690	**	**	**
								MLC-2	3.200	0.0675	0.0035	**
								MLC-3	3.190	0.0675	0.0035	**
								MLC-4	3.490	0.0675	0.0035	**
								MLC-1	3.29/2.560	0.0780	.0005/0.0040	**
								MLC-5	2.410	0.0765	0.0045	**
								MLC-6	1.200	**	**	**
								MLC-2	2.260	0.0770	0.0045	**
	4X-A	F-104	14060	1.28	235	0.18N	1647:15	MLC-3	2.440	0.0770	0.0050	**
								MLC-4	2.460	0.0775	0.0035	**
								MLC-1	1.280	0.0750	0.0055	**
								MLC-5	1.480	0.0750	0.0040	**
								MLC-6	0.797	**	**	**
								MLC-2	1.540	0.0750	0.0010	**
								MLC-3	1.450	0.0750	0.0055	**
								MLC-4	1.520	0.0750	0.0040	**
								MLC-1	0.10S	0.0750	0.0010	**
								MLC-2	0.10S	0.0750	0.0010	**
6-16-66	27-A	F-104	29300	1.65	230	0.10S	1556:25	MLC-3	2.460	0.0775	0.0035	**
								MLC-4	2.460	0.0775	0.0035	**
								MLC-1	1.280	0.0750	0.0055	**
								MLC-5	1.480	0.0750	0.0040	**
								MLC-6	0.797	**	**	**
								MLC-2	1.540	0.0750	0.0010	**
								MLC-3	1.450	0.0750	0.0055	**
								MLC-4	1.520	0.0750	0.0040	**
								MLC-1	0.10S	0.0750	0.0010	**
								MLC-2	0.10S	0.0750	0.0010	**

Table 2. - (Cont.)

Date	Mission Number	Air-craft	Alt. ft	Mach	Heading deg	Offset miles	Boom Time Zulu	Micro-phone No.	Delta Po psf	Delta T sec	Rise Time sec	Type Signature
6-16-66	27-B	F-104	20540	1.40	228	0.26S	1557:50	MLC-1	1.630	0.0740	0.0030	**
								MLC-5	1.610	0.0735	0.0040	**
								MLC-6	0.897	**	**	**
								MLC-2	1.950	0.0735	0.0035	**
								MLC-3	1.560	0.0735	0.0050	**
								MLC-4	1.580	0.0735	0.0035	**
5-X	F-104	29700	1.65	344	0.25E	1604:25	MLC-1	1.930	0.0720	0.0050	**	
							MLC-5	1.790	0.0720	0.0045	**	
							MLC-6	0.964	**	**	**	
							MLC-2	1.640	0.0710	0.0030	**	
							MLC-3	1.710	0.0715	0.0045	**	
							MLC-4	1.710	0.0720	0.0045	**	
6-22-66	28-B	F-104	20820	1.35	233	0.16S	1613:43	MLC-1	2.050	0.0775	0.0135	**
								MLC-5	2.200	0.0780	0.0085	**
								MLC-6	1.340	**	**	**
								MLC-2	2.150	0.0770	0.0105	**
								MLC-3	3.460	0.0780	0.0065	**
								MLC-4	2.980	0.0775	0.0085	**
19-B	F-104	29500	1.42	233	0.20S	1630:05	MLC-1	1.510	0.0885	0.0175	**	
							MLC-5	2.050	0.0890	0.0025	**	
							MLC-6	1.030	**	**	**	
							MLC-2	1.500	0.0885	0.0080	**	
							MLC-3	1.940	0.0885	0.0095	**	
							MLC-4	1.990	0.0890	0.0085	**	
30-B	F-104	29720	1.37	232	0.16S	1744:38	MLC-1	1.010	0.0930	0.0215	**	
							MLC-5	0.985	0.0940	0.0265	**	
							MLC-6	0.439	**	**	**	
							MLC-2	0.724	0.0920	0.0385	**	
							MLC-3	0.958	0.0935	0.0265	**	
							MLC-4	1.020	0.0930	0.0290	**	
34-A	F-104	29600	1.39	233	0	1756:06	MLC-1	1.310	0.0960	0.0180	**	
							MLC-5	1.290	0.0965	0.0225	**	
							MLC-6	0.981	**	**	**	
							MLC-2	1.450	0.0945	0.0215	**	
							MLC-3	1.070	0.0985	0.0110	**	
							MLC-4	1.300	0.0945	0.0210	**	
24-B	F-104	20860	1.36	231	0.23S	1811:26	MLC-1	1.760	0.0785	0.0120	**	
							MLC-5	1.060	**	**	**	
							MLC-6	1.760	0.0770	**	**	
							MLC-2	1.990	0.0780	0.0070	**	
							MLC-3	2.900	0.0775	0.0070	**	
							MLC-4	3.020	0.0815	0.0025	**	
35-B	F-104	21060	1.28	235	0.25N	1822:47	MLC-1	2.850	0.0820	0.0050	**	
							MLC-5	1.420	**	0.0035	**	
							MLC-6	1.420	**	**	**	
							MLC-2	2.240	0.0825	0.0070	**	
							MLC-3	2.500	0.0815	0.0070	**	
							MLC-4	1.820	0.0805	0.0045	**	

Table 2. - (Concl.)

Date	Mission Number	Air-craft	Alt. ft	Mach	Heading deg	Offset miles	Boom Time Zulu	Micro-phone No.	Delta Po psf	Delta T sec	Rise time sec	Type Signature
6-22-66	25-A	F-104	21900	1.39	233	0.21N	1836:39	MLC-1	1.240	0.0750	0.0070	**
								MLC-5	1.360	0.0750	0.0065	**
								MLC-6	0.749	**	**	**
								MLC-2	1.420	0.0780	0.0095	**
								MLC-3	1.750	0.0750	0.0045	**
								MLC-4	1.460	0.0750	0.0120	**
23-A	F-104	29720	1.51	237	0.34N	1850:21	MLC-1	0.993	0.0830	0.0360	**	
							MLC-5	0.985	0.0840	0.0195	**	
							MLC-6	0.904	**	**	**	
							MLC-2	2.170	0.0840	0.0045	**	
							MLC-3	1.010	0.0830	0.0225	**	
							MLC-4	1.240	0.0845	0.0135	**	
6-23-66	17-B	F-104	21600	1.40	227	0.46S	1548:00	MLC-1	2.310	0.0760	0.0015	**
								MLC-5	1.33/2.030	0.0755	.002/0.0070	**
								MLC-6	0.938	**	**	**
								MLC-2	1.43/1.480	0.0760	.002/0.0050	**
								MLC-3	1.930	0.0760	0.0055	**
								MLC-4	1.820	0.0760	0.0020	**
22-A	F-104	29260	1.40	232	0	1559:59	MLC-1	1.39/1.800	0.0830	.001/0.0085	**	
							MLC-5	1.22/1.510	0.0830	0.0045	**	
							MLC-6	0.781	**	**	**	
							MLC-2	1.550	0.0825	0.0100	**	
							MLC-3	1.28/1.430	0.0830	.0015/0.0060	**	
							MLC-4				**	
31-B	F-104	21260	1.39	232	0	1612:21	MLC-1	2.170	0.0760	0.0060	**	
							MLC-5	1.02/2.080	0.0760	.0015/0.0130	**	
							MLC-6	0.547	**	**	**	
							MLC-2	1.72/1.970	0.0760	.003/0.0095	**	
							MLC-3	1.930	0.0760	0.0130	**	
							MLC-4	1.63/2.490	0.0760	.001/0.0060	**	
33-B	F-104	29840	1.49	230	0.10S	1622:04	MLC-1	1.430	0.0840	0.0120	**	
							MLC-5	1.610	0.0840	0.0110	**	
							MLC-6	0.885	**	**	**	
							MLC-2	2.410	0.0840	0.0040	**	
							MLC-3	1.850	0.0840	0.0100	**	
							MLC-4	1.82/1.920	0.0840	.0085/0.0110	**	
20-A	F-104	21520	1.37	233	0.19N	1951:20	MLC-1	1.860	0.0780	0.0110	**	
							MLC-5	1.61/1.970	0.0800	.007/0.0120	**	
							MLC-6	1.070	**	**	**	
							MLC-2	.985/1.740	0.0790	.0025/0.0200	**	
							MLC-3	2.140	0.0800	.003/0.0095	**	
							MLC-4	1.830	0.0790	0.0120	**	
36-A	F-104	20860	1.39	230	0.37S	2005:15	MLC-1	1.930	0.0770	0.0020	**	
							MLC-5	2.240	0.0770	0.0050	**	
							MLC-6	1.280	**	**	**	
							MLC-2	1.97/2.120	0.0770	.001/0.0055	**	
							MLC-3	1.85/2.140	0.0765	.0045/0.0070	**	
							MLC-4	1.70/2.040	0.0770	.003/0.0050	**	
7-X	F-104	29640	1.55	258	0.29S	2018:18	MLC-1	1.990	0.0810	0.0080	**	
							MLC-5	1.700	0.0810	0.0160	**	
							MLC-6	0.806	**	**	**	
							MLC-2	3.330	0.0820	0.0075	**	
							MLC-3	1.27/1.560	0.0815	.009/0.0205	**	
							MLC-4	1.700	0.0810	0.0135	**	

Table 3. - Summary of Data - Phase II

Date	Mission Number	Air-craft	Alt ft	Mach No	Head deg	Offset miles	Boom Time Zulu	Micro-phone No.	Peak Amplitudes Positive (psf)	Peak Amplitudes Negative (psf)	tau 1/2 sec	tau max sec	Delta T sec	Wave Angle deg	Ground Speed ft/s	Type Signature
11-23-66	1-1	XB-70	37200	1.46	243	1.95S	1831:43	MLC1	**	2.29	0.0005	0.0015	0.229	58.9	1342	NP
								MLC2	**	2.34	0.0005	0.0065	0.229			NP
								MLC3	**	2.78	0.0002	0.0050	0.229			NP
								MLC4	**	2.64	0.0006	0.0020	0.230			NP
								MLC5	**	2.37	0.0003	0.0030	0.231			NP
								MLC6	**	2.84	**	**	**			**
11-23-66	1-3	B-58	32400	1.40	240	1.36S	1832:37	MLC1	**	1.72	0.0003	0.0050	0.165	66.5	1242	NP
								MLC2	**	2.51	0.0004	0.0050	0.165			PS
								MLC3	**	1.94	0.0010	0.0030	0.165			NP
								MLC4	**	1.96	0.0005	0.0070	0.165			NP
								MLC5	**	2.27	0.0005	0.0050	0.165			NP
								MLC6	**	2.44	**	**	**			**
11-23-66	1-4	F-104	18600	1.30	241	0.42N	1838:14	MLC1	**	3.06	0.0005	0.0015	0.082	58.7	1351	NP
								MLC2	**	3.67	0.0001	0.0040	0.081			PS
								MLC3	**	4.29	0.0005	0.0005	0.081			P
								MLC4	**	3.58	0.0005	0.0030	0.081			NP
								MLC5	**	3.81	0.0010	0.0035	0.081			NP
								MLC6	**	1.78	**	**	**			**
11-10-66	2-1	XB-70	37300	1.48	236	7.12S	1909:15	MLC1	**	1.96	0.0005	0.0050	0.237	79.4	1250	NP
								MLC2	**	1.87	0.0080	0.0080	0.237			NR
								MLC3	**	2.11	0.0040	0.0040	0.237			P
								MLC4	**	1.75	0.0080	0.0080	0.237			NR
								MLC5	**	2.32	0.0060	0.0060	0.237			P
								MLC6	**	1.52	**	**	**			**
11-10-66	2-3	B-58	33000	1.50	257	1.42S	1911:42	MLC1	**	1.62	0.0010	0.0140	0.153	50.9	1626	NR
								MLC2	**	1.61	0.0006	0.0170	0.153			NR
								MLC3	**	1.83	0.0010	0.0075	0.153			NR
								MLC4	**	1.52	0.0003	0.0080	0.153			PR
								MLC5	**	1.43	0.0005	0.0120	0.153			NR
								MLC6	**	0.99	**	**	**			**
11-10-66	2-4	F-104	*****	****	***	*****	1915:32	MLC1	**	4.22	0.0001	0.0010	0.079	54.3	1439	P
								MLC2	**	4.12	0.0001	0.0005	0.078			P
								MLC3	**	3.70	0.0002	0.0040	0.079			NP
								MLC4	**	3.95	0.0004	0.0020	0.078			P
								MLC5	**	3.93	0.0005	0.0020	0.079			NP
								MLC6	**	1.69	**	**	**			**

Table 3. - (Cont.)

Date	Mission Number	Alt ft	Mach No	Head deg	Offset miles	Boom Time Zulu	Microphone No.	Peak Amplitudes Positive P1	Peak Amplitudes Negative P2	Peak Amplitudes P3	Peak Amplitudes P1	Peak Amplitudes P2	Peak Amplitudes P3	tau 1/2 sec	tau max sec	Delta T sec	Wave Angle deg	Ground Speed ft/s	Type Signature
12-12-66	3-1 B-58	32400	1.50	247	1.48N	1827:31	MLC1	**	2.08	2.660	2.08	1.75	2.660	0.0005	0.0050	0.153	53.6	1476	NP
							MLC2	**	1.99	2.460	1.99	1.89	2.460	0.0005	0.0055	0.153			NP
							MLC3	**	1.96	2.390	1.96	1.67	2.390	0.0002	0.0050	0.153			NP
							MLC4	**	2.23	2.680	2.23	1.92	2.680	0.0004	0.0035	0.153			NP
							MLC5	**	2.10	2.560	2.10	1.90	2.560	0.0005	0.0055	0.152			NP
							MLC6	**	**	1.300	**	**	1.300	**	**	**			**
12-12-66	3-2 XB-70	37600	1.50	246	0.17S	1831:42	MLC1	**	2.27	2.570	2.27	2.50	2.570	0.0003	0.0050	0.234	56.7	1384	NP
							MLC2	**	1.79	2.420	1.79	2.39	2.420	0.0004	0.0050	0.233			NP
							MLC3	**	2.10	2.390	2.10	2.25	2.390	0.0003	0.0050	0.234			NP
							MLC4	**	2.13	2.470	2.13	2.51	2.470	0.0005	0.0045	0.234			NP
							MLC5	**	2.23	2.530	2.23	2.63	2.530	0.0005	0.0040	0.234			NP
							MLC6	**	**	1.300	**	**	1.300	**	**	**			**
12-12-66	3-4 F-104	17800	1.30	245	0.44S	1838:51	MLC1	2.790	2.86	2.470	2.86	2.40	2.470	0.0002	0.0040	0.077	56.1	1413	PS
							MLC2	**	2.76	2.320	2.76	2.36	2.320	0.0003	0.0050	0.077			NP
							MLC3	**	2.79	2.250	2.79	2.32	2.250	0.0003	0.0040	0.077			NP
							MLC4	**	2.68	2.340	2.68	2.37	2.340	0.0002	0.0040	0.077			NP
							MLC5	**	2.76	2.420	2.76	2.33	2.420	0.0005	0.0040	0.077			NP
							MLC6	**	**	1.260	**	**	1.260	**	**	**			**
12-16-66	4-1 B-58	32000	1.50	247	0.36N	1553:46	MLC1	**	1.87	2.300	1.87	2.04	2.300	0.0005	0.0135	0.149	50.9	1476	NR
							MLC2	**	1.83	2.290	1.83	2.01	2.290	0.0004	0.0150	0.149			NR
							MLC3	**	1.87	2.200	1.87	1.87	2.200	0.0002	0.0140	0.149			NR
							MLC4	**	1.90	2.250	1.90	2.11	2.250	0.0005	0.0140	0.149			NR
							MLC5	**	1.81	2.190	1.81	2.02	2.190	0.0005	0.0125	0.149			NR
							MLC6	**	**	0.910	**	**	0.910	**	**	**			**
12-16-66	4-2 XB-70	38600	1.50	246	0*	1557:49	MLC1	**	2.24	2.570	2.24	2.27	2.570	0.0002	0.0050	0.232	55.0	1399	NP
							MLC2	**	2.32	2.570	2.32	2.29	2.570	0.0005	0.0050	0.232			NP
							MLC3	**	2.23	2.490	2.23	2.02	2.490	0.0005	0.0050	0.232			NP
							MLC4	**	2.11	2.390	2.11	2.29	2.390	0.0008	0.0060	0.232			NP
							MLC5	**	2.12	2.430	2.12	2.22	2.430	0.0006	0.0050	0.232			NP
							MLC6	**	**	1.170	**	**	1.170	**	**	**			**
12-12-66	5-1 B-58	36300	1.65	245	11.99N	1759:12	MLC1	**	0.42	0.700	0.42	0.62	0.700	0.0008	0.0140	0.173	75.5	1481	NR
							MLC2	**	0.40	0.700	0.40	0.67	0.700	0.0010	0.0150	0.173			PR
							MLC3	**	0.42	0.670	0.42	0.60	0.670	0.0010	0.0150	0.173			PR
							MLC4	**	0.45	0.670	0.45	0.67	0.670	0.0010	0.0045	0.173			NP
							MLC5	**	0.35	0.670	0.35	0.64	0.670	0.0010	0.0165	0.173			NR
							MLC6	**	**	0.320	**	**	0.320	**	**	**			**

\* - Nominal Offset

Table 3. - (Cont.)

Date	Mission Number	Air-craft	Alt ft	Mach No	Head deg	Offset miles	Boom Time Zulu	Micro-phone No.	Peak Amplitudes Positive (psf)	Peak Amplitudes Negative (psf)	P1	P2	P3	P1	P2	P3	tau 1/2 sec	tau max sec	Delta T sec	Wave Angle deg	Ground Speed ft/s	Type Signature
12-12-66	5-2	XB-70	59100	2.49	246	12.90N	1805:31	MLC1	**	0.62	0.81	**	1.250	**	0.62	0.81	0.0010	0.0050	0.283	52.0	2235	NP
								MLC2	**	0.60	0.83	**	1.160	**	0.60	0.83	0.0005	0.0060	0.284	NP		
								MLC3	**	0.62	0.76	**	1.140	**	0.62	0.76	0.0010	0.0050	0.283	NP		
								MLC4	**	0.62	0.89	**	1.240	**	0.62	0.89	0.0004	0.0040	0.283	NP		
								MLC5	**	0.59	0.82	**	1.200	**	0.59	0.82	0.0005	0.0045	0.283	NP		
								MLC6	**	**	**	**	0.610	**	**	**	**	**	**	**	NP	
12-20-66	6-1	B-58	35500	1.65	244	7.65N	1956:00	MLC1	**	0.75	1.13	**	1.290	**	0.75	1.13	0.0010	0.0210	0.157	67.1	1533	NR
								MLC2	**	0.93	1.21	**	1.350	**	0.93	1.21	0.0010	0.0150	0.157	NR		
								MLC3	**	0.61	1.06	**	1.300	**	0.61	1.06	0.0011	0.0150	0.157	NR		
								MLC4	**	0.70	1.21	**	1.290	**	0.70	1.21	0.0011	0.0160	0.158	NR		
								MLC5	**	0.76	1.16	**	1.310	**	0.76	1.16	0.0012	0.0140	0.158	NR		
								MLC6	**	**	**	**	0.632	**	**	**	**	**	**	**	NP	
12-20-66	6-2	XB-70	60000	2.50	248	12.86N	2000:07	MLC1	**	0.95	0.97	**	1.570	**	0.95	0.97	0.0005	0.0070	0.284	53.3	2128	NP
								MLC2	**	0.98	1.00	**	1.750	**	0.98	1.00	0.0004	0.0065	0.284	NP		
								MLC3	**	**	0.98	**	1.910	**	**	0.98	0.0003	0.0045	0.284	NP		
								MLC4	**	1.03	1.05	**	1.890	**	1.03	1.05	0.0008	0.0060	0.284	NP		
								MLC5	**	0.97	1.03	**	1.890	**	0.97	1.03	0.0010	0.0055	0.284	NP		
								MLC6	**	**	**	**	0.874	**	**	**	**	**	**	**	NP	
1-13-67	7-1	B-58	35800	1.62	241	7.33N	1806:55	MLC1	**	**	**	**	**	**	**	**	**	**	**	56.7	1639	**
								MLC2	**	0.91	1.30	**	1.790	**	0.91	1.30	0.0004	0.0055	0.147	NP		
								MLC3	**	0.91	1.20	**	1.780	**	0.91	1.20	0.0006	0.0055	0.147	NP		
								MLC4	**	**	**	**	**	**	**	**	**	**	**	**	NP	
								MLC5	**	0.91	1.23	**	1.670	**	0.91	1.23	0.0005	0.0050	0.147	NP		
								MLC6	**	**	**	**	0.890	**	**	**	**	**	**	**	NP	
1-13-67	7-3	XB-70	60300	2.50	249	13.50N	1817:20	MLC1	**	**	**	**	**	**	**	**	**	**	**	41.3	2273	**
								MLC2	**	0.51	0.86	**	1.17	**	0.51	0.86	0.0004	0.0060	0.264	PP		
								MLC3	**	0.56	0.78	**	1.24	**	0.56	0.78	0.0004	0.0040	0.264	PP		
								MLC4	**	**	**	**	**	**	**	**	**	**	**	**	NP	
								MLC5	**	0.65	0.85	**	**	**	0.65	0.85	0.0003	0.0045	0.264	NP		
								MLC6	**	**	**	**	0.679	**	**	**	**	**	**	**	**	
1-17-67	8-1	B-58	35500	2.51	265	0.62S	1747:50	MLC1	**	2.14	2.25	**	2.440	**	2.14	2.25	0.0005	0.0050	0.163	45.0	1802	NP
								MLC2	**	2.23	2.32	**	2.500	**	2.23	2.32	0.0010	0.0055	0.164	NP		
								MLC3	**	**	2.17	**	2.580	**	**	2.17	0.0009	0.0045	0.164	NP		
								MLC4	**	2.00	2.34	**	2.120	**	2.00	2.34	0.0005	0.0075	0.165	NP		
								MLC5	**	2.02	2.27	**	2.330	**	2.02	2.27	0.0011	0.0050	0.165	NP		
								MLC6	**	**	**	**	1.250	**	**	**	**	**	**	**	**	

Table 3. - (Cont.)

Date	Mission Number	Air-craft	Alt ft	Mach No	Head deg	Offset miles	Boom Time Zulu	Micro-phone No.	Peak Amplitudes Positive (psf) P1	Peak Amplitudes Negative (psf) P1	Peak Amplitudes P2	tau 1/2 sec	tau max sec	Delta T sec	Wave Angle deg	Ground Speed ft/s	Type Signature
1-17-67	8-3	XB-70	60000	2.46	246	12.92N	1753:09	MLC1	**	**	0.88	0.0010	0.0080	0.269	42.3	2439	NR
								MLC2	**	**	0.93	0.0011	0.0130	0.270			NR
								MLC3	**	**	0.81	0.0010	0.0130	0.170			NR
								MLC4	**	**	1.03	0.0050	0.0080	0.270			NR
								MLC5	**	**	0.87	0.0010	0.0120	0.269			NR
								MLC6	**	**	**	**	**	**			**
11-10-66	9-1	XB-70	59400	2.51	246	6.02N	1835:11	MLC1	2.100	0.83	1.13	0.0003	0.0050	0.275	30.9	2381	PSR
								MLC2	**	0.84	1.22	0.0005	0.0015	0.276			NP
								MLC3	**	0.79	1.24	0.0008	0.0050	0.275			PP
								MLC4	**	0.83	1.25	0.0002	0.0035	0.272			NP
								MLC5	**	1.06	1.30	0.0005	0.0035	0.273			NP
								MLC6	**	**	**	**	**	**			**
11-10-66	9-2	B-58	40400	1.65	247	0.34N	1838:03	MLC1	**	1.91	1.71	0.0110	0.0030	0.175	48.5	1538	NP
								MLC2	**	1.98	1.77	0.0010	0.0050	0.174			PP
								MLC3	**	4.51	1.70	0.0001	0.0005	0.174			PS
								MLC4	**	2.06	1.94	0.0001	0.0050	0.174			NP
								MLC5	**	**	1.87	0.0004	0.0020	0.174			NP
								MLC6	**	**	**	**	**	**			**
11-10-66	9-3	F-104	21100	1.14	249	0.38N	1844:25	MLC1	**	1.92	1.58	0.0020	0.0055	0.085	59.0	1333	NP
								MLC2	**	1.85	1.48	0.0030	0.0065	0.085			NP
								MLC3	**	1.66	1.39	0.0040	0.0090	0.084			NR
								MLC4	**	1.69	1.47	0.0040	0.0075	0.040			NP
								MLC5	**	1.75	1.59	0.0048	0.0085	0.850			NP
								MLC6	**	**	**	**	**	**			**
11-23-66	10-1	XB-70	59700	2.46	246	2.52S	1800:01	MLC1	**	1.01	1.54	0.0003	0.0040	0.262	28.4	2469	NP
								MLC2	**	1.17	1.70	0.0005	0.0050	0.263			NP
								MLC3	**	1.07	1.54	0.0000	0.0050	0.263			NP
								MLC4	**	1.11	1.75	0.0010	0.0040	0.263			NP
								MLC5	**	1.19	1.75	0.0010	0.0035	0.263			NP
								MLC6	**	**	**	**	**	**			**
11-23-66	10-2	B-58	32400	1.32	242	1.14S	1806:12	MLC1	**	2.10	2.35	0.0010	0.0135	0.185	73.8	1163	NR
								MLC2	**	2.26	2.65	0.0005	0.0055	0.185			NP
								MLC3	**	2.30	2.68	0.0006	0.0170	0.185			NR
								MLC4	**	2.03	2.69	0.0003	0.0160	0.185			NR
								MLC5	**	2.18	2.65	0.0005	0.0140	0.185			NR
								MLC6	**	**	**	**	**	**			**

Table 3. - (Cont.)

Date	Mission Number	Air-craft	Alt ft	Mach No	Head deg	Boom Time Zulu	Micro-phone No.	Peak Amplitudes Positive (psf) P1	Peak Amplitudes Negative (psf) P2	Peak Amplitudes Negative (psf) P3	tau 1/2 sec	tau max sec	Delta T sec	Wave Angle deg	Ground Speed ft/s	Type Signature
12-16-66	11-1	F-104	20800	1.40	244	1519:18	MLC1	**	2.47	2.12	0.0005	0.0040	0.073	50.2	1515	NP
							MLC2	**	2.35	2.01	0.0000	0.0050	0.073			
							MLC3	**	2.26	1.95	0.0005	0.0045	0.074			
							MLC4	**	2.32	2.04	0.0003	0.0045	0.074			
							MLC5	**	2.09	2.42	0.0006	0.0045	0.074			
							MLC6	**	0.93	**	**	**	**			
12-16-66	11-2	B-58	40200	1.65	246	1524:42	MLC1	**	1.57	1.83	0.0005	0.0050	0.171	47.4	1533	NR
							MLC2	**	1.54	1.79	0.0003	0.0050	0.171			
							MLC3	**	1.80	1.66	0.0003	0.0050	0.170			
							MLC4	**	1.87	1.51	0.0005	0.0045	0.170			
							MLC5	**	1.87	1.52	0.0002	0.0045	0.171			
							MLC6	**	0.84	**	**	**	**			
12-16-66	11-3	XB-70	59400	2.50	245	1529:05	MLC1	**	1.33	1.59	0.0003	0.0045	0.278	28.4	2381	NP
							MLC2	**	1.23	1.59	0.0001	0.0050	0.278			
							MLC3	**	1.29	1.52	0.0005	0.0045	0.278			
							MLC4	**	1.34	1.59	0.0005	0.0045	0.278			
							MLC5	**	1.19	1.60	0.0006	0.0045	0.278			
							MLC6	**	0.99	**	**	**	**			
1-4-67	12-1	B-58	39200	1.65	245	2038:05	MLC1	**	1.57	1.85	0.0010	0.0060	0.171	47.3	1538	NP
							MLC2	**	1.51	1.88	0.0010	0.0055	0.172			
							MLC3	**	2.21	1.84	0.0008	0.0050	0.172			
							MLC4	**	2.32	2.08	0.0003	0.0060	0.171			
							MLC5	2.920	1.40	1.87	0.0000	0.0040	0.172			
							MLC6	**	1.28	**	**	**	**			
1-4-67	12-2	XB-70	60300	2.50	246	2040:52	MLC1	**	1.41	1.71	0.0002	0.0045	0.290	27.9	2439	NP
							MLC2	**	1.51	1.71	0.0003	0.0050	0.289			
							MLC3	**	2.29	1.73	0.0006	0.0050	0.289			
							MLC4	**	2.28	1.65	0.0000	0.0050	0.290			
							MLC5	**	2.04	1.46	0.0080	0.0050	0.290			
							MLC6	**	0.98	**	**	**	**			
1-4-67	12-3	F-104	22000	1.42	246	2046:22	MLC1	**	1.99	1.85	0.0010	0.0045	0.076	51.2	1460	NP
							MLC2	1.880	**	2.00	0.0002	0.0060	0.076			
							MLC3	**	2.00	2.51	0.0008	0.0055	0.076			
							MLC4	**	2.30	2.01	0.0003	0.0050	0.076			
							MLC5	**	2.19	2.13	0.0006	0.0050	0.076			
							MLC6	**	**	**	**	**	**			

\* - Nominal Offset



Table 3. - (Cont.)

Date	Mission Number	Air-craft	Alt ft	Mach No	Head deg	Offset miles	Boom Time Zulu	Micro-phone No.	Peak Amplitudes			Peak Amplitudes		tau 1/2 sec	tau max sec	Delta T sec	Wave Angle deg	Ground Speed ft/s	Type Signature
									P1	P2	P3	Negative P1	Positive P2						
11-3-66	13-1	B-58	35900	1.65	244	0.47S	1851:03	MLC1	**	**	2.310	1.59	1.82	0.0006	0.0060	0.159	47.7	1581	NR
								MLC2	**	1.92	**	**	0.0050	0.160	NP				
								MLC3	**	2.04	2.190	1.41	1.67	0.0001	0.0050	PP			
								MLC4	**	**	2.250	1.48	1.93	0.0002	0.0040	NP			
								MLC5	**	**	2.110	1.50	1.93	0.0004	0.0045	NP			
								MLC6	**	**	1.080	**	**	**	**	**			
11-3-66	13-2	XB-70	60000	1.80	241	1.21N	1856:33	MLC1	**	**	2.000	1.21	1.59	0.0010	0.0075	0.286	43.7	1778	NR
								MLC2	**	**	1.920	**	**	0.0010	0.0055	0.286			NR
								MLC3	**	**	2.170	1.25	1.54	0.0007	0.0050	0.287			NP
								MLC4	**	**	1.950	1.19	1.73	0.0006	0.0150	0.287			NP
								MLC5	**	**	1.970	1.17	1.69	0.0006	0.0065	0.287			NR
								MLC6	**	**	1.030	**	**	**	**	**			NR
11-3-66	13-3	F-104	20000	1.40	240	0.64N	1857:13	MLC1	**	**	1.870	2.16	1.92	0.0005	0.0055	0.074	56.0	1498	NP
								MLC2	**	**	2.050	2.42	2.07	0.0006	0.0055	0.074			NP
								MLC3	**	**	2.010	2.22	1.83	0.0006	0.0050	0.075			NP
								MLC4	**	**	2.150	2.37	1.95	0.0002	0.0045	0.074			NP
								MLC5	**	**	1.950	2.25	1.97	0.0005	0.0060	0.075			NP
								MLC6	**	**	0.980	**	**	**	**	**			NP
12-20-66	14-1	XB-70	59700	1.80	247	0.04N	2022:37	MLC1	**	**	2.020	1.22	1.65	0.0008	0.0130	0.312	43.7	1674	NR
								MLC2	**	**	2.010	1.25	1.68	0.0005	0.0180	0.312			NR
								MLC3	**	**	2.170	1.41	1.64	0.0004	0.0060	0.311			NP
								MLC4	**	**	2.260	1.36	1.79	0.0007	0.0045	0.311			NP
								MLC5	**	**	2.110	1.29	1.78	0.0005	0.0050	0.311			NP
								MLC6	**	**	0.933	**	**	**	**	**			NP
12-20-66	14-2	B-58	38800	1.53	245	0.89N	2025:26	MLC1	**	3.36	2.700	1.62	1.82	0.0010	0.0035	0.156	54.6	1423	PS
								MLC2	**	**	2.530	1.59	1.86	0.0002	0.0050	0.156			NP
								MLC3	**	**	2.610	1.53	1.67	0.0002	0.0050	0.156			NP
								MLC4	**	**	2.750	1.73	2.01	0.0002	0.0035	0.156			NP
								MLC5	**	**	2.620	1.56	1.87	0.0006	0.0030	0.156			NP
								MLC6	**	**	1.260	**	**	**	**	**			**
12-20-66	14-3	F-104	21400	1.30	243	0.27N	2028:25	MLC1	**	**	2.020	2.48	2.08	0.0004	0.0050	0.086	58.7	1347	NP
								MLC2	**	2.47	2.040	2.38	2.13	0.0001	0.0020	0.086			PS
								MLC3	**	**	1.970	2.35	2.14	0.0005	0.0050	0.086			NP
								MLC4	**	**	1.850	2.16	2.19	0.0001	0.0020	0.086			NP
								MLC5	**	2.17	2.200	2.62	2.23	0.0003	0.0040	0.086			NP
								MLC6	**	**	0.963	**	**	**	**	**			**

Table 3. - (Cont.)

Date	Mission Number	Air-craft	Alt ft	Mach No	Head deg	Offset miles	Boom Time Zulu	Micro-phone No.	Peak Amplitudes Positive (psf)	Peak Amplitudes Negative (psf)	tau 1/2 sec	tau max sec	Delta T sec	Wave Angle deg	Ground Speed ft/s	Type Signature
1-13-67	15-1	XB-70	60600	1.80	248	1.80N	1842:32	MLC1	**	1.64	0.0002	0.0055	0.296	40.4	1739	NP
								MLC2	**	1.62	0.0004	0.0050	0.296			NP
								MLC3	**	1.49	0.0005	0.0060	0.296			NP
								MLC4	**	1.49	0.0006	0.0040	0.295			NP
								MLC5	**	1.54	0.0003	0.0035	0.295			NP
								MLC6	**	**	**	**	**			**
1-13-67	15-2	B-58	39600	1.65	252	0*	1844:43	MLC1	**	1.81	0.0005	0.0040	0.163	45.7	1626	NP
								MLC2	**	1.91	0.0005	0.0050	0.163			NP
								MLC3	**	1.85	0.0004	0.0040	0.162			NP
								MLC4	**	1.83	0.0002	0.0040	0.163			NP
								MLC5	**	1.90	0.0006	0.0045	0.162			NP
								MLC6	**	**	**	**	**			**
1-13-67	15-3	F-104	20200	1.40	242	0.04N	1827:48	MLC1	**	2.49	0.0005	0.0040	0.073	45.9	1550	NP
								MLC2	**	2.23	0.0002	0.0050	0.073			PP
								MLC3	**	2.76	0.0002	0.0040	0.073			NP
								MLC4	**	2.32	0.0003	0.0030	0.074			PS
								MLC5	**	2.65	0.0001	0.0040	0.074			NP
								MLC6	**	**	**	**	**			**
1-17-67	16-1	B-58	39700	1.65	247	0.57N	1816:09	MLC1	**	1.73	0.0002	0.0070	0.169	48.3	1550	NR
								MLC2	**	2.120	0.0005	0.0050	0.170			NP
								MLC3	**	1.93	0.0008	0.0045	0.170			NP
								MLC4	**	1.65	0.0002	0.0045	0.170			NP
								MLC5	**	2.170	0.0002	0.0045	0.170			NP
								MLC6	**	1.83	0.0003	0.0045	0.170			**
1-17-67	16-2	XB-70	59700	1.80	245	0.13N	1818:53	MLC1	**	1.41	0.0010	0.0050	0.298	41.5	1739	NP
								MLC2	**	1.47	0.0002	0.0055	0.299			NP
								MLC3	**	2.260	0.0008	0.0055	0.298			NP
								MLC4	**	1.46	0.0002	0.0050	0.299			NP
								MLC5	**	2.410	0.0005	0.0040	0.299			NP
								MLC6	**	1.130	**	**	**			**
1-17-67	16-3	F-104	20600	1.40	250	0.95N	1841:27	MLC1	**	2.06	0.0005	0.0040	0.076	54.4	1429	NP
								MLC2	**	2.090	0.0003	0.0005	0.076			NP
								MLC3	**	2.07	0.0003	0.0040	0.076			NP
								MLC4	**	2.00	0.0002	0.0040	0.076			NP
								MLC5	**	2.20	0.0001	0.0010	0.076			NP
								MLC6	**	**	**	**	**			**

\* - Nominal Offset

Table 3. - (Concl.)

Date	Mission Number	Air-craft	Alt ft	Mach No	Head deg	Boom Time Zulu	Micro-phone No.	Peak Amplitudes Positive (psf)			Peak Amplitudes Negative (psf)		tau 1/2 sec	tau max sec	Delta T sec	Wave Angle deg	Ground Speed ft/s	Type Signature
10-31-66	17-1	F-104	31200	1.61	252	1630:14	MLC1	**	**	1.040	0.87	1.04	**	0.0065	0.076	45.0	1667	NR
							MLC2	**	0.95	1.100	0.80	1.01	0.0025	0.0060	0.076	PR		
							MLC3	**	**	1.080	**	1.01	**	0.0060	0.076	NR		
							MLC4	**	**	1.210	**	1.02	**	0.0040	0.076	NP		
							MLC5	**	1.00	1.090	**	1.00	0.0015	0.0060	0.075	PP		
							MLC6	**	**	0.600	**	**	**	**	**	**	**	
10-31-66	17-2	B-58	48600	1.61	248	1634:09	MLC1	**	**	1.590	**	1.38	**	0.0090	0.188	48.7	1527	NR
							MLC2	**	**	1.700	**	**	**	0.0650	0.188	NR		
							MLC3	**	**	1.590	**	1.46	**	0.0150	0.188	NR		
							MLC4	**	**	1.660	**	1.39	**	0.0080	0.189	NR		
							MLC5	**	1.23	1.640	**	1.46	0.0010	0.0075	0.189	PR		
							MLC6	**	**	00.91	**	**	**	**	**	**	**	
10-31-66	18-1	B-58	47300	1.61	250	1657:27	MLC1	**	**	1.190	**	1.21	**	0.0150	0.172	43.6	1535	NR
							MLC2	**	**	1.320	**	**	**	0.0065	0.173	NP		
							MLC3	**	**	1.300	**	1.24	**	0.0140	0.173	NR		
							MLC4	**	**	1.250	**	1.25	**	0.0085	0.173	NR		
							MLC5	**	**	1.300	**	1.30	**	0.0080	0.173	NR		
							MLC6	**	**	0.070	**	**	**	**	**	**	**	
10-31-66	18-2	F-104	31000	1.65	247	1658:37	MLC1	**	**	1.140	1.12	1.00	**	0.0010	0.072	44.4	1702	NP
							MLC2	**	**	1.190	1.46	1.15	**	0.0050	0.073	NP		
							MLC3	**	**	1.190	1.37	1.06	**	0.0040	0.072	NP		
							MLC4	**	1.02	1.150	**	1.07	0.0005	0.0040	0.073	NP		
							MLC5	**	1.14	1.160	1.27	1.11	0.0015	0.0045	0.072	NP		
							MLC6	**	**	0.680	**	**	**	**	**	**	**	
10-31-66	19-1	F-104	30500	1.61	250	1759:33	MLC1	**	**	1.470	**	1.21	**	0.0045	0.074	49.3	1639	NP
							MLC2	**	**	1.440	**	1.29	**	0.0050	0.074	NP		
							MLC3	**	**	1.440	1.30	1.09	**	0.0050	0.075	NP		
							MLC4	**	**	1.710	1.64	1.39	**	0.0050	0.075	NP		
							MLC5	**	**	1.420	**	1.23	**	0.0050	0.074	NP		
							MLC6	**	**	0.740	**	**	**	**	**	**	**	
10-31-66	19-2	B-58	38900	1.43	244	1802:54	MLC1	**	**	2.030	**	1.72	**	0.0070	0.155	52.6	1455	NR
							MLC2	**	**	1.190	**	1.76	**	0.0060	0.154	NR		
							MLC3	2.410	2.12	2.240	1.37	1.68	0.0010	0.0050	0.154	PSR		
							MLC4	**	**	1.550	1.06	1.45	**	0.0050	0.154	NR		
							MLC5	**	**	2.180	**	1.79	**	0.0035	0.154	NP		
							MLC6	**	**	1.020	**	**	**	**	**	**	**	

Table 3. - (Cont.)

Date	Mission Number	Air-craft	Alt ft	Mach No	Head deg	Offset miles	Boom Time Zulu	Micro- phone No.	Peak Amplitudes (psf)			Peak Amplitudes (psf)		tau 1/2 sec	tau max sec	Delta T sec	Wave Angle deg	Ground Speed ft/s	Type Signature
P1	P2	P3	P1	P2	P1	P2													
10-31-66	20-1	B-58	43900	1.52	251	0.45N	1829:09	MLC1	**	**	1.770	1.16	1.40	**	0.0050	0.161	52.3	1470	NR
								MLC2	**	1.75	1.920	1.11	1.39	0.0015	0.0055	0.161			PP
								MLC3	**	**	1.700	1.16	1.42	**	0.0050	0.161			NP
								MLC4	**	**	1.980	**	1.77	**	0.0050	0.161			NR
								MLC5	**	**	1.820	1.23	1.47	**	0.0040	0.161			NR
								MLC6	**	**	0.020	**	**	**	**	**			**
10-31-66	20-2	F-104	31000	1.65	249	0*	1829:20	MLC1	**	**	1.240	**	1.28	**	0.0050	0.074	47.0	1695	NR
								MLC2	**	**	1.240	**	1.44	**	0.0050	0.073			NR
								MLC3	**	**	1.270	**	1.27	**	0.0050	0.073			NP
								MLC4	**	**	1.450	**	1.52	**	0.0045	0.074			NP
								MLC5	**	**	1.320	**	1.40	**	0.0050	0.074			N
								MLC6	**	**	0.680	**	**	**	**	**			**
11-8-66	21-1	B-58	47600	1.60	244	0.25S	1629:35	MLC1	**	**	1.080	0.43	0.90	**	0.0130	0.189	51.2	1471	NR
								MLC2	**	0.84	1.000	0.40	0.84	0.0030	0.0320	0.189			PR
								MLC3	**	0.62	0.880	0.54	0.76	0.0020	0.0055	0.189			PR
								MLC4	**	**	0.930	0.51	0.91	**	0.0075	0.189			NR
								MLC5	**	0.76	0.910	0.47	0.74	0.0025	0.0140	**			PR
								MLC6	**	**	0.530	**	**	**	**	**			**
11-8-66	22-1	B-58	47500	1.65	243	0.38S	1656:13	MLC1	**	1.01	1.660	1.25	1.10	0.0020	0.0060	0.173	47.6	1587	PP
								MLC2	**	**	1.480	1.27	1.12	**	0.0110	0.173			NR
								MLC3	**	**	1.530	1.16	1.04	**	0.0075	0.173			NP
								MLC4	**	**	1.730	1.47	1.19	**	0.0020	0.174			NP
								MLC5	**	1.35	1.560	1.21	1.15	0.0025	0.0075	0.174			PP
								MLC6	**	**	0.820	**	**	**	**	**			**
11-8-66	23-1	B-58	47800	1.65	246	0.27N	1714:51	MLC1	**	**	1.440	1.07	1.45	**	0.0065	0.190	49.8	1538	NR
								MLC2	**	**	1.770	1.38	1.57	**	0.0020	0.190			NP
								MLC3	**	**	1.550	**	1.46	**	0.0200	0.190			NR
								MLC4	**	**	1.620	1.02	1.51	**	0.0150	0.190			NR
								MLC5	**	**	1.500	1.07	1.44	**	0.0170	0.190			NR
								MLC6	**	**	0.690	**	**	**	**	**			**
11-8-66	24-1	B-58	47700	1.65	250	0.74N	1740:35	MLC1	**	**	1.220	0.76	0.92	**	0.0040	0.177	45.0	1667	NP
								MLC2	**	**	1.530	1.03	1.09	**	0.0100	0.177			NP
								MLC3	**	**	1.260	0.74	0.94	**	0.0050	0.176			NP
								MLC4	**	**	1.390	0.94	1.15	**	0.0050	0.176			NP
								MLC5	**	**	1.330	0.89	1.00	**	0.0075	0.176			NP
								MLC6	**	**	0.690	**	**	**	**	**			**

\* - Nominal Offset

Table 3. - (Cont.)

Date	Mission Number	Air-craft	Alt ft	Mach No	Head deg	Offset miles	Boom Time Zulu	Micro-phone No.	Peak Amplitudes (psf)			Peak Amplitudes Negative (psf)		tau 1/2 sec	tau max sec	Delta T sec	Wave Angle deg	Ground Speed ft/s	Type Signature
									P1	P2	P3	P1	P2						
11-8-66	25-1	B-58	46800	1.65	247	0.19N	1802:58	MLC1	**	1.77	1.740	1.07	1.25	**	0.0120	0.186	45	1600	NR
									2.000	**	1.910	1.38	1.55	0.0005	0.0135	0.185	PSR		
									**	**	1.620	1.14	1.41	**	0.0140	0.186	NR		
									2.160	1.63	2.050	1.60	1.44	0.0006	0.0135	0.186	PSR		
									**	**	**	**	1.36	**	0.0010	0.185	P		
									**	**	**	**	**	**	**	**	**	**	
11-8-66	26-1	B-58	47900	1.50	244	0*	1811:41	MLC1	2.080	1.83	1.830	**	1.54	0.0005	0.0050	0.196	53.7	1471	NP
									**	**	**	1.41	1.58	**	0.0025	0.196	NP		
									**	1.87	2.270	1.18	1.53	0.0015	0.0040	0.196	PP		
									**	**	2.310	1.60	1.75	**	0.0015	0.196	NP		
									**	**	2.280	**	1.70	**	0.0045	0.196	NP		
									**	**	1.270	**	**	**	**	**	**	**	
11-8-66	27-2	B-58	47400	1.65	247	0.02N	1830:07	MLC1	**	**	1.390	1.07	1.30	**	0.0030	0.174	48.6	1600	NP
									**	**	2.190	1.38	1.62	**	0.0050	0.174	NP		
									**	**	1.580	0.94	1.31	**	0.0030	0.174	NP		
									**	**	2.050	1.28	1.76	**	0.0080	0.175	NP		
									**	1.80	2.030	0.91	1.47	0.0025	0.0060	0.175	PP		
									**	**	1.000	**	**	**	**	**	**	**	
11-8-66	28-2	B-58	48000	1.60	248	0.78N	1837:55	MLC1	**	**	1.250	0.70	1.15	**	0.0040	0.174	45.9	1613	NR
									**	1.34	1.450	0.81	1.40	0.0020	0.0075	0.174	PR		
									**	1.16	1.250	0.74	1.21	0.0020	0.0150	0.174	PR		
									**	1.65	1.670	**	1.38	0.0005	0.0040	0.174	PP		
									**	**	1.330	0.76	1.18	**	0.0020	0.174	PR		
									**	**	0.840	**	**	**	**	**	**	**	
11-8-66	29-2	B-58	47400	1.65	249	0.38N	1854:26	MLC1	**	**	1.650	1.36	1.22	**	0.0055	0.195	46.4	1587	NP
									**	1.60	1.670	1.41	1.48	0.0045	0.0150	0.195	FF		
									**	**	1.500	1.35	1.25	**	0.0050	0.195	NP		
									**	**	1.570	1.59	1.28	**	0.0080	0.195	NR		
									**	**	1.560	1.37	1.28	**	0.0050	0.195	NP		
									**	**	0.840	**	**	**	**	**	**	**	
11-8-66	30-2	B-58	47500	1.65	254	1.23N	1917:41	MLC1	**	**	2.030	1.83	1.47	**	0.0035	0.186	43.9	1660	P
									**	2.17	3.160	2.34	1.51	0.0005	0.0020	0.186	PP		
									**	**	1.700	1.21	1.38	**	0.0050	0.186	P		
									**	**	2.960	2.51	1.45	**	0.0015	0.187	P		
									**	**	1.770	1.56	1.44	**	0.0120	0.187	NP		
									**	**	0.920	**	**	**	**	**	**	**	

\* - Nominal Offset

Table 3. - (Cont.)

Date	Mission Number	Air-craft	Alt ft	Mach No	Head deg	Offset miles	Boom Time Zulu	Micro-phone No.	Peak Amplitudes Positive (psf)	Peak Amplitudes Negative (psf)	tau 1/2 sec	tau max sec	Delta T sec	Wave Angle deg	Ground Speed ft/s	Type Signature
11-8-66	31-2	B-58	47000	1.60	244	0.25S	1952:41	MLC1	**	0.92	1.47	**	0.0025	0.187	1600	NP
								MLC2	**	1.07	1.72	**	0.0250	0.187		NR
								MLC3	**	1.580	1.01	**	0.0220	0.187		NR
								MLC4	**	1.730	1.51	**	0.0100	0.187		NR
								MLC5	**	1.74	1.51	**	0.0220	0.187		PP
								MLC6	**	0.94	1.51	0.0010	0.0220	0.187		**
11-8-66	32-2	B-58	48000	1.65	242	0.44S	2020:44	MLC1	**	1.13	1.34	0.0010	0.0130	0.179	1581	PP
								MLC2	**	0.91	1.58	0.0010	0.0080	0.179		PP
								MLC3	**	1.34	1.36	**	0.0110	0.178		NP
								MLC4	**	1.770	1.36	**	0.0025	0.180		NP
								MLC5	**	2.000	1.55	**	0.0015	0.179		PP
								MLC6	**	1.36	1.44	**	**	**		**
11-16-66	33-1	B-58	36200	1.65	241	1.04S	1630:18	MLC1	**	1.39	2.06	**	0.0125	0.168	1460	NR
								MLC2	**	0.920	**	**	0.0175	0.169		NR
								MLC3	**	2.610	**	**	0.0070	0.169		**
								MLC4	**	2.000	**	**	0.0075	0.168		NP
								MLC5	**	2.800	2.41	**	0.0155	0.168		NR
								MLC6	**	2.290	2.11	**	**	**		**
11-16-66	34-1	B-58	36000	1.65	240	0.80S	1658:33	MLC1	**	1.54	**	**	0.0110	0.155	1504	NR
								MLC2	**	2.31	1.98	**	0.0055	0.155		PP
								MLC3	**	3.380	2.05	0.0010	0.0035	0.154		NP
								MLC4	**	2.26	2.04	**	0.0080	0.154		NP
								MLC5	**	4.200	2.35	**	0.0040	0.154		NP
								MLC6	**	3.440	2.05	**	**	**		**
11-16-66	35-1	B-58	36400	1.63	247	0.28N	1718:37	MLC1	**	2.41	1.98	**	0.0165	0.163	1527	NR
								MLC2	**	1.29	1.99	0.0085	0.0050	0.162		PP
								MLC3	**	1.39	1.75	**	0.0010	0.162		PS
								MLC4	**	1.20	2.13	**	0.0050	0.163		NP
								MLC5	**	1.40	1.96	**	0.0030	0.163		NP
								MLC6	**	1.15	**	**	**	**		**
11-16-66	36-1	B-58	36200	1.64	245	0*	1745:38	MLC1	**	**	**	**	**	**		**
								MLC2	**	**	**	**	**	**		**
								MLC3	**	**	**	**	**	**		**
								MLC4	**	**	**	**	**	**		**
								MLC5	**	**	**	**	**	**		**
								MLC6	**	**	**	**	**	**		**

\* - Nominal Offset

Recorder

Table 3. - (Cont.)

Date	Mission Number	Air-craft	Alt ft	Mach No	Head deg	Offset miles	Boom Time Zulu	Micro-phone No.	Peak Amplitudes Positive (psf) P1	Peak Amplitudes Negative (psf) P2	Peak Amplitudes P3	tau 1/2 sec	tau max sec	Delta T sec	Wave Angle deg	Ground Speed ft/s	Type Signature
11-16-66	37-1	B-58	36000	1.65	248	0.40N	1809:56	MLC1	**	3.78	2.830	**	0.0005	0.162	50.4	1504	PS
								MLC2	**	2.20	2.650	0.0010	0.0050	0.163			PP
								MLC3	**	**	2.260	**	0.0070	0.163			NR
								MLC4	**	**	2.440	**	0.0040	0.162			NP
								MLC5	**	**	2.320	**	0.0040	0.162			NR
								MLC6	**	**	1.230	**	**	**			**
11-16-66	38-1	B-58	35900	1.64	239	1.69S	1831:39	MLC1	**	3.450	2.94	**	0.0040	0.159	54.3	1439	NP
								MLC2	**	**	3.980	**	0.0030	0.159			NP
								MLC3	**	2.85	3.980	0.0010	0.0040	0.158			PP
								MLC4	**	**	3.410	**	0.0080	0.158			NP
								MLC5	**	**	3.710	**	0.0030	0.159			NP
								MLC6	**	**	2.390	**	**	**			**
11-16-66	39-1	B-58	35700	1.65	244	0.13N	1851:56	MLC1	**	**	2.900	**	0.0050	0.158	52.3	1470	NR
								MLC2	**	2.90	3.080	0.0025	0.0055	0.158			PP
								MLC3	**	**	2.660	**	8.0000	0.158			NP
								MLC4	**	**	3.080	**	0.0070	0.158			NP
								MLC5	**	**	3.020	**	0.0040	0.158			NP
								MLC6	**	**	**	**	**	**			**
11-16-66	40-1	B-58	36200	1.64	248	0.42N	1901:57	MLC1	**	**	3.750	**	0.0020	0.160	49.0	1538	NP
								MLC2	**	**	2.990	**	0.0025	0.160			NP
								MLC3	**	**	3.100	**	0.0050	0.160			NP
								MLC4	**	4.39	3.840	0.0005	0.0010	0.160			PS
								MLC5	**	**	3.740	**	0.0010	0.160			NP
								MLC6	**	**	1.690	**	**	**			**
11-17-66	41-1	B-58	36300	1.65	247	0.66N	1816:40	MLC1	**	**	2.740	**	0.0015	0.157	51.1	1538	NP
								MLC2	**	**	2.420	**	0.0050	0.157			NP
								MLC3	**	**	2.300	**	0.0040	0.157			NP
								MLC4	**	**	2.450	**	0.0055	0.158			NP
								MLC5	**	**	2.670	**	0.0010	0.158			NP
								MLC6	**	**	1.440	**	**	**			**
11-21-66	42-1	B-58	*****	****	***	0*	1900:11	MLC1	**	**	2.600	**	0.0070	0.168	50.2	1515	NP
								MLC2	**	**	2.330	**	0.0060	0.168			NP
								MLC3	**	3.32	2.560	0.0010	0.0025	0.168			PS
								MLC4	**	**	2.240	**	0.0055	0.168			NP
								MLC5	**	**	2.320	**	0.0130	0.168			NR
								MLC6	**	**	1.180	**	**	**			**

\* - Nominal Offset

Table 3. - (Cont.)

Date	Mission Number	Air-craft	Alt ft	Mach No	Head deg	Offset miles	Boom Time Zulu	Micro-phone No.	Peak Amplitudes			tau 1/2 sec	tau max sec	Delta T sec	Wave Angle deg	Ground Speed f/s	Type Signature		
									P1	P2	P3								
11-21-66	43-2	B-58	35900	1.65	245	0.55S	1923:53	MLC1	**	3.04	3.280	**	0.0055	0.155	49.1	1504	PP		
									**	**	2.03	1.93	**	0.0005				0.156	P
									**	**	1.56	1.87	**	0.0055				0.155	NP
									**	**	1.06	1.59	**	0.0070				0.156	NP
									**	**	1.78	1.96	**	0.0055				0.156	NP
									**	**	**	**	**	**				**	**
11-21-66	44-2	B-58	36400	1.65	250	0.66S	1931:58	MLC1	**	**	1.420	**	**	49.9	1527	NP			
									**	**	1.82	2.13	**				0.0060	0.167	NP
									**	**	1.60	2.02	**				0.0135	0.166	NR
									**	**	1.63	1.73	**				0.0050	0.167	NP
									**	**	1.75	2.10	**				0.0020	0.167	NP
									**	**	1.87	2.06	**				0.0005	0.167	PP
11-21-66	45-1	B-58	36000	1.63	246	0*	1954:19	MLC1	**	**	1.280	**	**	50.4	1504	NP			
									**	**	1.76	2.03	**				0.0120	0.165	P
									**	**	1.53	1.98	**				0.0001	0.166	NP
									**	**	2.190	1.66	**				0.0005	0.165	PP
									**	**	1.21	2.14	0.0035				0.0135	0.165	PP
									**	**	1.80	2.02	**				0.0040	0.165	NP
11-21-66	46-1	B-58	35900	1.55	246	0.30S	2037:14	MLC1	**	**	1.280	**	**	58.7	1351	**			
									**	**	1.55	1.79	**				0.0120	0.166	NR
									**	**	1.53	1.75	**				0.0075	0.166	NP
									**	**	2.16	1.73	**				0.0015	0.166	P
									**	**	2.10	1.99	**				0.0040	0.167	NP
									**	**	1.50	1.87	0.0010				0.0045	0.167	PP
11-21-66	47-2	B-58	35800	1.62	244	0.47S	2102:53	MLC1	**	**	1.620	**	**	48.7	1527	**			
									**	**	1.62	1.76	**				0.0060	0.158	NP
									**	**	1.60	1.79	**				0.0060	0.158	NP
									**	**	1.20	1.53	**				0.0060	0.157	NR
									**	**	1.42	1.85	**				0.0080	0.158	NR
									**	**	1.53	1.80	**				0.0050	0.158	NP
11-21-66	48-2	B-58	36000	1.65	247	0.08S	2115:01	MLC1	**	**	1.280	**	**	52.3	1471	**			
									**	**	1.39	2.06	**				0.0070	0.165	NR
									**	**	1.98	2.06	**				0.0040	0.166	NP
									**	**	1.86	1.79	**				0.0040	0.166	NP
									**	**	1.99	2.21	**				0.0040	0.166	NP
									**	**	2.39	2.10	**				0.0045	0.166	NP
* - Nominal Offset																			

\* - Nominal Offset



Table 3. - (Cont.)

Date	Mission Number	Alt ft	Mach No	Head deg	Offset miles	Boom Time Zulu	Micro-phone No.	Peak Amplitudes Positive (psf)			Peak Amplitudes Negative (psf)		tau 1/2 sec	tau max sec	Delta T sec	Wave Angle deg	Ground Speed ft/s	Type Signature	
								P1	P2	P3	P1	P2							
11-15-66	49-2	F-104	16600	1.15	245	0.15N	1821:13	MLC1	**	2.70	2.700	3.02	2.86	0.0010	0.0040	0.100	76.6	1190	PP
								MLC2	**	**	2.740	3.08	2.68	**	0.0050	0.099	NR		
								MLC3	**	2.47	2.530	2.91	2.72	0.0015	0.0050	0.100	PP		
								MLC4	**	**	2.460	**	2.80	**	0.0070	0.100	NP		
								MLC5	**	**	2.700	3.08	2.77	**	0.0060	0.100	NP		
								MLC6	**	**	1.360	**	**	**	**	**	**		
11-15-66	50-2	F-104	16400	1.22	245	0.11S	1632:15	MLC1	**	**	3.080	3.47	2.76	**	0.0020	0.085	NP	1290	NP
								MLC2	**	**	3.140	3.29	2.80	**	0.0025	0.086	NP		
								MLC3	**	2.35	3.070	3.22	2.72	0.0005	0.0045	0.085	PP		
								MLC4	**	3.52	3.800	4.11	3.02	0.0005	0.0040	0.096	PP		
								MLC5	**	2.80	2.920	3.14	2.83	0.0010	0.0050	0.086	PP		
								MLC6	**	**	1.460	**	**	**	**	**	**		
11-29-66	51-2	F-104	16600	1.30	246	0.76N	1632:06	MLC1	**	**	3.480	4.26	3.09	**	0.0060	0.078	NP	1375	NP
								MLC2	**	3.38	3.550	4.68	1.31	0.0025	0.0060	0.077	PP		
								MLC3	**	**	4.100	4.90	3.12	**	0.0025	0.077	P		
								MLC4	**	**	3.360	3.71	3.13	**	0.0050	0.078	NP		
								MLC5	**	**	4.070	4.78	3.25	**	0.0040	0.078	P		
								MLC6	**	**	1.910	**	**	**	**	**	**		
11-6-66	52-1	F-104	17000	1.30	248	1.17N	1734:17	MLC1	**	3.14	3.510	4.62	3.14	0.0070	0.0140	0.084	PP	1290	PP
								MLC2	**	3.91	4.830	6.20	3.50	0.0025	0.0115	0.084	PP		
								MLC3	**	**	2.670	**	2.84	**	0.0055	0.084	NR		
								MLC4	**	**	2.690	2.65	2.96	**	0.0045	0.084	NP		
								MLC5	**	2.86	3.200	3.45	1.23	0.0040	0.0180	0.084	PP		
								MLC6	**	**	2.870	**	**	**	**	**	**		
11-6-66	53-1	F-104	17100	1.30	246	0.59N	1744:23	MLC1	**	**	5.430	6.50	3.25	**	0.0075	0.085	P	1303	P
								MLC2	**	**	3.150	3.75	3.46	**	0.0105	0.085	NP		
								MLC3	**	**	3.180	3.55	2.70	**	0.0130	0.085	NP		
								MLC4	**	**	3.390	4.17	3.19	**	0.0060	0.085	NP		
								MLC5	**	**	3.730	4.06	2.93	**	0.0105	0.079	P		
								MLC6	**	**	4.270	**	**	**	**	**	**		
11-7-66	54-1	F-104	16500	1.30	244	0.15S	1710:18	MLC1	**	**	4.070	4.72	3.81	**	0.0030	0.079	NP	1399	NP
								MLC2	**	**	4.170	4.52	4.10	**	0.0030	0.079	NP		
								MLC3	**	**	3.550	4.00	3.34	**	0.0070	0.079	NP		
								MLC4	**	**	3.880	4.48	3.79	**	0.0025	0.079	NP		
								MLC5	**	**	3.750	4.32	3.78	**	0.0040	0.079	NP		
								MLC6	**	**	1.710	**	**	**	**	**	**		

Table 3. - (Cont.)

Date	Mission Number	Air-craft	Alt ft	Mach No	Head deg	Boom Time Zulu	Micro-phone No.	Peak Amplitudes Positive (psf) P1	Peak Amplitudes Negative (psf) P2	Peak Amplitudes Negative (psf) P3	Peak Amplitudes Negative (psf) P1	Peak Amplitudes Negative (psf) P2	tau 1/2 sec	tau max sec	Delta T sec	Wave Angle deg	Ground Speed ft/s	Type signature
12-21-66	55-1	F-104	16900	1.30	243	1633:30	MLC1	**	**	2.820	3.30	2.96	**	0.0060	0.076	52.3	1404	NP
								**	2.62	2.810	3.51	2.92	0.0020	0.0065	0.077			PP
								**	4.10	2.920	3.56	2.78	0.0005	0.0060	0.077			PS
								**	**	2.909	1.10	2.80	**	0.0015	0.077			NP
								**	**	2.804	3.44	2.88	**	0.0035	0.077			NP
								**	**	1.400	**	**	**	**	**			**
12-9-66	56-1	F-104	16500	1.28	246	1829:42	MLC1	**	**	2.600	3.05	2.57	**	0.0055	0.081	59.2	1325	NP
								**	**	2.920	3.09	2.51	**	0.0010	0.081			NP
								**	**	2.500	2.94	2.46	**	0.0025	0.081			NP
								**	**	2.700	3.03	2.74	**	0.0040	0.081			NP
								**	**	2.580	2.99	2.68	**	0.0030	0.081			NP
								**	**	1.420	**	**	**	**	**			**
12-9-66	57-1	F-104	16000	1.29	240	1837:54	MLC1	**	**	2.730	2.96	2.47	**	0.0020	0.080	58.9	1342	NP
								**	**	2.680	3.16	2.72	**	0.0015	0.080			NP
								**	**	2.420	2.86	2.50	**	0.0020	0.079			NP
								**	**	2.490	2.74	2.63	**	0.0040	0.079			NP
								**	**	2.890	3.33	2.68	**	0.0010	0.079			NP
								**	**	1.460	**	**	**	**	**			**
12-20-66	58-2	F-104	16800	1.30	246	1741:58	MLC1	**	**	2.150	2.22	2.04	**	0.0040	0.076	60.6	1408	NP
								**	2.07	2.300	2.38	2.11	0.0050	0.0050	0.075			PP
								**	**	2.290	2.36	2.14	**	0.0050	0.076			NP
								**	**	2.450	2.61	2.18	**	0.0050	0.076			NP
								**	**	2.430	2.50	2.16	**	0.0040	0.076			NP
								**	**	1.170	**	**	**	**	**			**
12-20-66	59-2	F-104	16600	1.34	247	1750:17	MLC1	2.870	2.47	2.580	2.87	2.33	0.0005	0.0050	0.075	59.3	1399	PP
								**	**	2.460	2.84	2.50	**	0.0020	0.075			NP
								**	**	2.620	2.96	2.40	**	0.0045	0.075			NP
								**	**	2.760	2.99	2.41	**	0.0045	0.075			NP
								**	**	2.650	2.88	2.39	**	0.0036	0.075			NP
								**	**	1.250	**	**	**	**	**			**
12-21-66	60-2	F-104	17100	1.28	245	1622:31	MLC1	**	**	2.580	**	2.61	**	0.0050	0.082	56.1	1347	NP
								**	**	2.590	2.96	2.62	**	0.0050	0.082			NP
								**	4.06	2.600	2.85	2.46	0.0005	0.0050	0.082			PS
								**	**	2.540	**	2.59	**	0.0050	0.082			NP
								**	**	2.540	2.69	2.62	**	0.0035	0.082			NP
								**	**	1.360	**	**	**	**	**			**

Table 3. - (Cont.)

Date	Mission Number	Air-craft	Alt ft	Mach No	Head deg	Offset miles	Boom Time Zulu	Micro-phone No.	Peak Amplitudes Positive (psf) P1	Peak Amplitudes Negative (psf) P2	Peak Amplitudes Negative (psf) P3	tau 1/2 sec	tau max sec	Delta T sec	Wave Angle deg	Ground Speed ft/s	Type Signature
11-15-66	61-1	F-104	29600	1.65	247	0.59N	1655:19	MLC1	**	**	1.160	**	0.0060	0.078	46.4	1587	NR
								MLC2	**	**	1.180	**	0.0055	0.077			NR
								MLC3	**	1.38	1.260	**	0.0040	0.078			NP
								MLC4	**	**	1.260	**	0.0040	0.078			NP
								MLC5	**	**	1.210	**	0.0050	0.078			NP
								MLC6	**	**	0.590	**	**	**			**
11-30-66	62-1	F-104	30300	1.66	246	0.25N	1627:50	MLC1	**	**	1.810	**	0.0050	0.079	41.7	1660	NP
								MLC2	**	**	1.830	**	0.0050	0.079			NP
								MLC3	**	**	1.790	**	0.0050	0.079			NP
								MLC4	**	1.69	1.710	**	0.0050	0.079			NP
								MLC5	**	**	1.850	**	0.0040	0.079			NP
								MLC6	**	**	0.890	**	**	**			**
11-30-66	63-1	F-104	29600	1.62	242	0.17S	1832:57	MLC1	**	1.67	1.790	**	0.0050	0.080	44.8	1613	NP
								MLC2	**	1.77	1.850	**	0.0050	0.080			NP
								MLC3	**	1.59	1.690	**	0.0050	0.079			NP
								MLC4	**	1.63	1.750	**	0.0050	0.080			NP
								MLC5	**	1.73	1.810	**	0.0050	0.080			NP
								MLC6	**	**	0.870	**	**	**			**
11-29-66	64-2	F-104	29400	1.65	248	0.57N	1659:48	MLC1	**	1.91	1.550	**	0.0070	0.077	47.7	1515	NP
								MLC2	**	1.91	1.550	**	0.0025	0.078			NP
								MLC3	**	1.76	1.500	**	0.0055	0.078			NP
								MLC4	**	1.81	1.510	**	0.0080	0.077			NR
								MLC5	**	**	1.490	**	0.0070	0.078			NR
								MLC6	**	**	0.746	**	**	**			**
12-6-66	65-2	F-104	29700	1.60	244	0.02S	1730:17	MLC1	**	0.62	1.090	**	0.0160	0.084	73.6	1471	NR
								MLC2	**	0.48	0.960	**	0.0100	0.084			NR
								MLC3	**	0.52	1.210	**	0.0180	0.083			NR
								MLC4	**	0.66	1.190	**	0.0165	0.085			NR
								MLC5	**	0.31	1.010	**	0.0130	0.085			NR
								MLC6	**	**	1.130	**	**	**			**
12-6-66	66-2	F-104	30100	1.64	245	0.42N	1757:09	MLC1	**	0.91	1.170	**	0.0230	0.078	71.4	1498	NR
								MLC2	**	0.92	1.000	**	0.0185	0.078			NR
								MLC3	**	0.73	0.880	**	0.0150	0.078			NR
								MLC4	**	0.83	1.000	**	0.0220	0.079			NR
								MLC5	**	0.70	1.070	**	0.0205	0.078			NP
								MLC6	**	**	0.375	**	**	**			**

Table 3. - (Cont.)

Date	Mission Number	Air-craft	Alt ft	Mach No	Head deg	Offset miles	Boom Time Zulu	Micro-phone No.	Peak Amplitudes Positive (psf)			Peak Amplitudes Negative (psf)		tau 1/2 sec	tau max sec	Delta T sec	Wave Angle deg	Ground Speed ft/s	Type Signature
									P1	P2	P3	P1	P2						
12-7-66	67-1	F-104	29600	1.65	245	0.55S	1700:26		**	1.47	1.750	1.67	1.51	0.0050	0.0095	0.082	43.3	1633	PP
									**	**	1.930	1.75	1.54	**	0.0050	0.083			NP
									**	**	1.380	1.29	1.43	**	0.0080	0.083			NP
									**	**	2.080	1.89	1.72	**	0.0050	0.083			P
									**	**	1.680	1.47	1.53	**	0.0060	0.083			NP
									**	**	0.710	**	**	**	**	**			**
12-21-66	68-1	F-104	29700	1.64	249	0.97N	1644:18		**	1.71	1.630	**	1.56	0.0010	0.0050	0.082	45.8	1619	PS
									**	**	1.560	**	1.49	**	0.0050	0.081			NP
									**	1.39	1.620	1.48	1.71	0.0020	0.0065	0.082			PP
									**	1.53	1.750	1.70	1.58	0.0015	0.0050	0.081			PP
									**	**	1.680	1.65	1.53	**	0.0050	0.081			NP
									**	**	0.770	**	**	**	**	**			**
12-9-66	69-1	F-104	29600	1.67	246	0.23N	1658:08		**	**	1.160	1.36	1.26	**	0.0050	0.078	42.8	1660	NP
									**	**	1.190	1.39	1.30	**	0.0055	0.078			NP
									**	**	1.180	1.44	1.75	**	0.0055	0.078			NP
									**	**	1.200	1.48	1.36	**	0.0045	0.078			NP
									**	**	1.200	1.39	1.31	**	0.0040	0.077			NP
									**	**	0.560	**	**	**	**	**			**
12-20-66	70-2	F-104	29800	1.65	246	0*	1640:13		**	**	1.360	**	**	**	**			NP	NP
									**	**	1.280	**	1.41	**	0.0055	0.074	42.2	1695	NP
									**	**	1.400	1.68	1.45	**	0.0050	0.075			NP
									**	**	1.400	1.52	1.42	**	0.0050	0.074			NP
									**	**	1.360	1.48	1.43	**	0.0050	0.074			NP
									**	**	0.598	**	**	**	**	**			**
12-20-66	71-2	F-104	30600	1.58	244	0.02S	1703:53		**	**	1.420	1.31	1.56	**	0.0050	0.083	44.8	1613	NP
									**	**	1.430	**	1.57	**	0.0060	0.083			NP
									**	**	1.400	**	1.52	**	0.0060	0.083			NP
									**	**	1.400	1.47	1.54	**	0.0060	0.083			NP
									**	**	1.410	1.27	1.32	**	0.0060	0.082			NP
									**	**	0.670	**	**	**	**	**			**
12-20-66	72-2	F-104	34300	1.42	245	0.97N	1715:45		**	**	1.180	1.40	1.22	**	0.0140	0.092	55.2	1389	NR
									**	**	1.140	1.40	1.26	**	0.0140	0.091			NR
									**	**	1.140	1.40	1.29	**	0.0130	0.091			NR
									**	**	1.180	1.42	1.32	**	0.0130	0.091			NR
									**	**	1.170	1.31	1.24	**	0.0130	0.091			NR
									**	**	0.550	**	**	**	**	**			**

\* - Nominal Offset

Table 3. - (Cont.)

Date	Mission Number	Air-craft	Alt ft	Mach No	Head deg	Offset miles	Boom Time Zulu	Micro-phone No.	Peak Amplitudes Positive (psf)	Peak Amplitudes Negative (psf)	tau 1/2 sec	tau max sec	Delta T sec	Wave Angle deg	Ground Speed ft/s	Type Signature
11-30-66	73-1	F-104	50100	1.51	248	0.44N	1716:24	MLC1	**	0.762	**	0.0070	0.103	55.2	1389	NR
								MLC2	**	0.64	**	0.0070	0.103			NR
								MLC3	**	0.60	**	0.0065	0.104			NR
								MLC4	**	0.776	**	0.0080	0.104			NR
								MLC5	**	0.64	**	0.0065	0.103			NR
								MLC6	**	0.761	**	**	**			**
11-30-66	73-1	F-104	50500	1.50	247	0.80N	1627:49	MLC1	**	0.374	**	0.0020	0.115	62.2	1316	NP
								MLC2	**	0.910	**	0.0070	0.115			NP
								MLC3	**	0.980	**	0.0050	0.113			NP
								MLC4	**	1.060	**	0.0035	0.115			NP
								MLC5	**	1.020	**	0.0040	0.114			NP
								MLC6	**	0.970	**	**	**			**
11-30-66	75-1	F-104	49600	1.50	246	0.17N	1841:52	MLC1	**	0.817	**	0.0070	0.103	55.6	1370	NR
								MLC2	**	0.866	**	0.0070	0.103			NR
								MLC3	**	0.67	**	0.0060	0.103			NP
								MLC4	**	0.828	**	**	**			**
								MLC5	**	0.877	**	0.0045	0.103			NP
								MLC6	**	0.406	**	**	**			**
11-29-66	76-2	F-104	50400	1.52	245	0.17N	1826:13	MLC1	**	0.845	**	0.0150	0.106	62.4	1307	NR
								MLC2	**	0.801	**	0.0150	0.105			NR
								MLC3	0.542	0.754	0.002	0.0080	0.105			PR
								MLC4	**	0.839	**	0.0140	0.105			NR
								MLC5	**	0.821	**	0.0130	0.105			NR
								MLC6	**	0.418	**	**	**			**
11-29-66	77-2	F-104	48800	1.51	244	0.11S	1833:10	MLC1	**	1.100	**	0.0050	0.116	62.5	1299	NP
								MLC2	**	1.150	**	0.0080	0.115			NP
								MLC3	**	1.050	**	0.0065	0.115			NP
								MLC4	**	1.040	**	0.0070	0.115			NP
								MLC5	**	1.100	**	0.0040	0.115			NP
								MLC6	**	0.480	**	**	**			**
12-7-66	78-2	F-104	50000	1.50	246	0.25N	1631:09	MLC1	1.960	2.06	0.011	0.0125	0.110	63.2	1262	PP
								MLC2	**	2.02	**	0.0105	0.110			P
								MLC3	**	2.31	**	0.0065	0.109			P
								MLC4	**	3.06	**	**	0.110			P
								MLC5	**	2.71	**	0.0105	0.111			P
								MLC6	**	1.320	**	**	**			**

Table 3. - (Cont.)

Date	Mission Number	Air-craft	Alt ft	Mach No	Head deg	Offset miles	Boom Time Zulu	Micro-phone No.	Peak Amplitudes Positive (psf)	Peak Amplitudes Negative (psf)	tau 1/2 sec	tau max sec	Delta T sec	Wave Angle deg	Ground Speed ft/s	Type Signature			
12-7-66	79-1	F-104	50400	1.50	246	0.34N	1645:32	MLC1	**	0.510	0.520	0.33	0.46	0.0075	0.0175	0.114	53.1	1307	PR
								MLC2	**	**	0.540	0.26	0.48	**	0.0270	0.115			NR
								MLC3	**	**	0.540	0.37	0.50	**	0.0150	0.114			NR
								MLC4	**	**	0.600	0.39	0.54	**	0.0105	0.115			NR
								MLC5	**	**	0.540	0.32	0.48	**	0.0230	0.115			NR
								MLC6	**	**	**	**	**	**	**	**			**
12-21-66	80-1	F-104	49200	1.50	244	0.04N	1653:33	MLC1	**	**	0.870	0.79	0.70	**	0.0050	0.108	54.7	1413	NP
								MLC2	**	**	0.806	0.70	0.67	**	0.0060	0.108			NP
								MLC3	**	**	0.867	0.72	0.65	**	0.0065	0.108			NP
								MLC4	**	**	0.863	**	0.72	**	0.0045	0.108			NP
								MLC5	**	**	0.864	**	0.67	**	0.0045	0.108			NP
								MLC6	**	**	0.407	**	**	**	**	**			**
12-21-66	81-1	F-104	49400	1.51	245	0.17N	1704:14	MLC1	**	**	0.815	0.72	0.62	**	0.0050	0.103	51.1	1465	NP
								MLC2	0.865	0.8701	0.760	0.70	0.57	0.0005	0.0060	0.103			PP
								MLC3	**	**	0.878	0.69	0.56	**	0.1030	**			P
								MLC4	**	0.803	0.803	0.66	0.62	0.0015	0.0045	0.103			PP
								MLC5	**	**	0.876	0.73	0.62	**	0.0050	0.103			NP
								MLC6	**	**	0.419	**	**	**	**	**			**
12-9-66	82-2	F-104	50500	1.50	245	0.57N	1639:30	MLC1	**	**	0.920	0.83	0.71	**	0.0050	0.104	53.5	1408	NP
								MLC2	**	**	0.920	0.75	0.68	**	0.0055	0.103			NP
								MLC3	**	**	0.870	0.75	0.67	**	0.0055	0.104			NP
								MLC4	**	**	0.890	0.74	0.74	**	0.0060	0.103			NP
								MLC5	**	**	0.950	0.77	0.72	**	0.0040	0.104			NP
								MLC6	**	**	0.450	**	**	**	**	**			**
12-20-66	83-2	F-104	50200	1.50	245	0.36N	1653:45	MLC1	**	**	0.839	0.63	0.77	**	0.0065	0.106	53.1	1418	NP
								MLC2	**	**	0.862	0.68	0.80	**	0.0060	0.105			NP
								MLC3	**	**	0.911	0.72	0.81	**	0.0060	0.106			NP
								MLC4	**	**	0.889	0.67	0.82	**	0.0050	0.106			NP
								MLC5	**	**	0.695	0.50	0.62	**	0.0050	0.106			NP
								MLC6	**	**	0.527	**	**	**	**	**			**
12-21-66	84-2	F-104	49500	1.56	247	0.61N	1606:14	MLC1	**	**	0.783	0.60	0.65	**	0.0065	0.102	54.5	1428	NP
								MLC2	**	**	0.736	0.56	0.67	**	0.0060	0.102			NP
								MLC3	**	0.755	0.822	0.56	0.70	0.0010	0.0055	0.103			PP
								MLC4	**	**	0.755	0.56	0.70	**	0.0045	0.103			NP
								MLC5	**	**	0.745	0.54	0.67	**	0.0050	0.102			NP
								MLC6	**	**	0.419	**	**	**	**	**			**

Table 3. - (Cont.)

Date	Mission Number	Alt ft	Mach No	Head deg	Offset miles	Boom Time Zulu	Micro- phone No.	Peak Amplitudes Positive (psf)			Peak Amplitudes Negative (psf)		tau 1/2 sec	tau max sec	Delta T sec	Wave Angle deg	Ground Speed ft/s	Type Signature
11-16-66	85-1	36000	1.63	248	0.64N	1924:59	MLC1	**	**	2.240	1.39	1.39	**	0.0025	0.156	51.0	1563	NP
							MLC2	**	**	2.290	1.48	1.48	**	0.0015	0.156			NP
							MLC3	**	**	2.040	1.24	1.68	**	0.0060	0.155			NR
							MLC4	**	**	2.440	1.52	1.95	**	0.0035	0.156			NP
							MLC5	2.320	1.93	2.080	1.27	1.84	0.0003	0.0130	0.157			PSR
							MLC6	**	**	1.030	**	**	**	**	**			**
11-16-66	86-1	36100	1.64	251	0.62N	1944:23	MLC1	**	**	2.940	2.78	1.84	**	0.0055	0.157	50.1	1521	NP
							MLC2	**	2.84	2.780	2.05	1.90	0.0005	0.0060	0.157			PP
							MLC3	**	**	2.300	1.42	1.61	**	0.0100	0.157			NR
							MLC4	**	**	2.560	1.77	1.98	**	0.0030	0.157			NP
							MLC5	**	**	2.590	**	**	**	0.0075	0.157			NP
							MLC6	**	**	1.300	**	**	**	**	**			**
11-17-66	87-1	36400	1.65	246	0.47N	1729:39	MLC1	**	**	2.310	1.82	2.05	**	0.0040	0.169	50.3	1509	NR
							MLC2	**	2.05	2.120	1.49	2.12	0.0010	0.0055	0.170			PR
							MLC3	**	**	2.230	1.73	2.00	**	0.0050	0.170			NR
							MLC4	**	**	2.320	1.91	2.38	**	0.0070	0.170			NR
							MLC5	**	**	2.070	1.62	2.15	**	0.0050	0.170			NR
							MLC6	**	**	1.170	**	**	**	**	**			**
11-17-66	88-1	36300	1.65	244	1.04N	1755:10	MLC1	**	**	2.410	1.49	1.92	**	0.0040	0.160	51.0	1470	NP
							MLC2	**	**	2.190	1.41	1.90	**	0.0075	0.160			NR
							MLC3	**	**	2.530	1.57	1.96	**	0.0050	0.160			NP
							MLC4	**	**	2.190	**	1.97	**	0.0200	0.161			NR
							MLC5	**	**	2.260	1.36	1.88	**	0.0040	0.161			NP
							MLC6	**	**	1.100	**	**	**	**	**			**
1-4-67	113-1	39100	1.65	246	0.13S	2104:47	MLC1	**	3.09	2.600	2.21	1.93	**	0.0045	0.164	50.6	1493	PS
							MLC2	**	**	2.640	1.25	1.97	0.0005	0.0050	0.164			NP
							MLC3	**	2.43	2.640	1.48	2.02	0.0005	0.0050	0.163			PP
							MLC4	**	**	2.440	1.40	2.01	0.0006	0.0015	0.164			NP
							MLC5	**	2.57	2.710	1.66	1.90	0.0001	0.0040	0.164			PP
							MLC6	**	**	1.490	**	**	**	**	**			**
1-4-67	113-2	60300	1.80	247	0.02S	2105:53	MLC1	**	**	2.260	1.55	1.77	0.0001	0.0050	0.313	41.8	1717	NP
							MLC2	**	**	2.290	1.57	1.88	0.0002	0.0055	0.313			NP
							MLC3	**	1.89	2.210	1.32	1.84	0.0005	0.0055	0.313			PP
							MLC4	**	**	2.130	1.48	1.94	0.0003	0.0040	0.313			NP
							MLC5	**	**	2.100	1.43	1.81	0.0003	0.0040	0.313			NP
							MLC6	**	**	1.070	**	**	**	**	**			**

Table 3. - (Cont.)

Date	Mission Number	Air-craft	Alt ft	Mach No	Head deg	Offset miles	Boom Time Zulu	Micro-phone No.	Peak Amplitudes Positive (psf)	Peak Amplitudes Negative (psf)	tau 1/2 sec	tau max sec	Delta T sec	Wave Angle deg	Ground Speed ft/s	Type Signature
1-4-67	113-3	F-104	20600	1.40	246	0.23N	2125:44	MLC1	1.60	1.82	0.0003	0.0065	0.079	57.6	1408	PR
								MLC2	1.88	2.06	0.0001	0.0050	0.078			PP
								MLC3	2.21	1.91	0.0002	0.0050	0.078			PS
								MLC4	**	1.06	0.0004	0.0020	0.078			**
								MLC5	**	1.910	0.0004	0.0020	0.078			**
								MLC6	**	2.040	0.0010	0.0040	0.078			NP
12-2-66	117-1	F-104	26400	1.65	251	0.95N	1748:18	MLC1	**	3.94	2.16	0.0010	0.077	46.2	1575	PS
								MLC2	2.970	3.13	0.0015	0.0035	0.077			PSR
								MLC3	**	2.50	0.0020	0.0090	0.077			PP
								MLC4	**	2.550	**	0.0030	0.077			P
								MLC5	**	2.780	2.91	0.0025	0.078			P
								MLC6	**	1.250	**	**	**			**
12-2-66	117-2	B-58	48000	1.65	244	0.36N	1748:26	MLC1	**	1.35	1.47	0.0060	0.194	53.9	1460	NP
								MLC2	**	1.940	**	0.0180	0.193			NR
								MLC3	**	1.650	**	0.0140	0.193			NR
								MLC4	**	2.020	**	0.0070	0.193			NP
								MLC5	**	1.780	1.41	0.0175	0.193			NR
								MLC6	**	1.970	**	**	**			**
12-2-66	118-1	B-58	48700	1.65	247	0.38N	1823:02	MLC1	**	2.200	1.72	0.0070	0.185			NP
								MLC2	**	2.390	1.07	0.0050	0.185	50.7	1550	P
								MLC1	**	2.290	1.60	0.0090	0.185			P
								MLC4	**	2.320	1.29	0.0070	0.186			NP
								MLC5	**	2.600	1.69	0.0050	0.186			P
								MLC6	**	1.290	**	**	**			**
12-2-66	118-2	F-104	26100	1.60	248	0.78N	1825:11	MLC1	**	1.55	1.89	0.0010	0.074	44.5	1626	PS
								MLC2	**	2.150	2.10	0.0050	0.075			NP
								MLC3	**	1.970	1.90	0.0050	0.075			NP
								MLC4	**	1.830	1.85	0.0070	0.075			NP
								MLC5	**	1.640	1.10	0.0160	0.075			NP
								MLC6	**	1.670	1.93	0.0055	0.074			**
12-7-66	119-1	F-104	26400	1.65	240	1.12S	1900:19	MLC1	2.550	1.12	0.87	0.0085	0.078	44.8	1681	PSR
								MLC2	**	2.220	0.82	0.0060	0.077			NP
								MLC3	**	2.280	0.84	0.0025	0.077			PS
								MLC4	**	2.24	0.91	0.0030	0.077			PP
								MLC5	**	1.51	0.94	0.0150	0.077			PP
								MLC6	**	1.77	0.84	0.0025	0.077			**



Table 3. - (Cont.)

Date	Mission Number	Air-craft	Alt ft	Mach No	Head deg	Offset miles	Boom Time Zulu	Micro-phone No.	Peak Amplitudes Positive (psf)	Peak Amplitudes Negative (psf)	tau 1/2 sec	tau max sec	Delta T sec	Wave Angle deg	Ground Speed ft/s	Type Signature	
11-8-66	121-1	B-58	47400	1.66	250	1.40N	1940:38	MLC1	**	1.41	1.24	**	0.0050	0.175	47.1	1619	NP
								MLC2	**	1.33	1.52	**	0.0010	0.175			P
								MLC3	**	1.20	1.33	**	0.0050	0.175			NP
								MLC4	**	1.63	1.60	**	0.0065	0.174			P
								MLC5	**	1.42	1.47	**	0.0075	0.174			P
								MLC6	**	0.930	**	**	**	**			**
12-8-66	122-1	B-58	48600	1.65	244	0.42N	1710:28	MLC1	**	1.00	1.14	**	0.0080	0.182	53.5	1481	NP
								MLC2	**	0.84	1.16	**	0.0020	0.183			NP
								MLC3	**	**	1.11	**	0.0160	0.182			NR
								MLC4	**	1.28	1.28	**	0.0185	0.183			NR
								MLC5	**	1.05	1.05	**	0.0200	0.183			NR
								MLC6	**	**	**	**	**	**			**
12-8-66	123-1	B-58	47600	1.51	249	0.93S	1723:15	MLC1	**	1.24	1.38	**	0.0040	0.214	55.6	1370	P
								MLC2	**	1.02	1.30	**	0.0070	0.215			NP
								MLC3	**	**	1.29	**	0.0040	0.215			NP
								MLC4	**	1.26	1.45	**	0.0050	0.215			NP
								MLC5	**	1.03	1.24	**	0.0020	0.216			NP
								MLC6	**	**	**	**	**	**			**
12-8-66	124-1	B-58	48200	1.65	244	0.17S	1749:36	MLC1	**	1.85	1.52	**	0.0060	0.200	52.1	1413	NP
								MLC2	**	1.26	1.52	0.0010	0.0050	0.199			PS
								MLC3	**	**	1.47	0.0010	0.0050	0.199			PP
								MLC4	**	1.24	1.64	**	0.0060	0.200			NP
								MLC5	**	1.34	1.48	**	0.0060	0.199			NP
								MLC6	**	**	**	**	**	**			**
12-8-66	125-1	B-58	48200	1.65	242	0*	1804:16	MLC1	**	0.83	1.64	0.0010	0.0130	0.204	57.8	1399	PR
								MLC2	**	**	2.05	**	0.0150	0.204			NR
								MLC3	**	1.59	1.52	0.0030	0.0140	0.205			PP
								MLC4	**	1.22	1.76	**	0.0150	0.205			NR
								MLC5	**	1.43	1.55	**	0.0100	0.205			NP
								MLC6	**	**	**	**	**	**			**
12-8-66	126-1	B-58	50200	1.65	242	0.80S	1829:28	MLC1	**	0.93	1.51	**	0.0180	0.200	53.3	1418	NR
								MLC2	**	1.10	1.50	**	0.0100	0.200			NR
								MLC3	**	0.77	1.54	0.0025	0.0150	0.199			PR
								MLC4	**	**	1.62	**	0.0160	0.200			NR
								MLC5	**	**	1.47	**	0.0190	0.199			NR
								MLC6	**	**	**	**	**	**			**

Table 3. - (Cont.)

Date	Mission Number	Air-craft	Alt ft	Mach No	Head deg	Offset miles	Boom Time Zulu	Micro-phone No.	Peak Amplitudes Positive (psf)			Peak Amplitudes Negative (psf)		tau 1/2 sec	tau max sec	Delta T sec	Wave Angle deg	Ground Speed ft/s	Type Signature
									P1	P2	P3	P1	P2						
12-8-66	127-2	B-58	49000	1.65	241	0.66N	1844:40	MLC1	**		1.540	1.06	1.54	**	0.0210	0.198	55.5	1374	NR
								MLC2	**		1.440	1.02	1.50	**	0.0160	0.198		NR	
								MLC3	**		1.480	0.88	1.45	**	0.0230	0.198		NR	
								MLC4	**		1.430	1.03	1.65	**	0.0080	0.198		NR	
								MLC5	**		1.440	0.95	1.47	**	0.0230	0.198		NR	
								MLC6	**		0.700	**	**	**	**	**		**	
12-8-66	128-2	B-58	41600	1.40	244	*****	1910:06	MLC1	**		2.420	1.89	2.13	**	0.0065	0.184	58.9	1338	NP
								MLC2	**		2.26	1.78	1.99	0.0020	0.0085	0.184		PP	
								MLC3	**		2.600	1.92	1.98	**	0.0060	0.184		NP	
								MLC4	**		2.70	1.91	2.14	0.0020	0.0055	0.184		PP	
								MLC5	**		2.680	2.01	2.11	**	0.0065	0.184		NP	
								MLC6	**		1.910	**	**	**	**	**		**	
12-8-66	129-2	B-58	48800	1.65	244	0.15N	1924:42	MLC1	**		1.940	1.56	1.59	**	0.0080	0.190	50.9	1476	NP
								MLC2	**		1.840	1.50	1.59	**	0.0075	0.190		NP	
								MLC3	**		1.730	1.37	1.56	**	0.0060	0.190		NP	
								MLC4	**		1.650	1.58	1.69	**	0.0145	0.190		NR	
								MLC5	**		1.800	1.39	1.62	**	0.0060	0.190		NP	
								MLC6	**		0.900	**	**	**	**	**		**	
12-8-66	130-2	B-58	48400	1.65	247	0.34N	1939:02	MLC1	**		2.120	1.51	1.81	**	0.0060	0.192	52.3	1470	NP
								MLC2	**		2.010	1.36	1.76	**	0.0065	0.192		NP	
								MLC3	**		1.870	1.59	1.91	**	0.0125	0.192		NR	
								MLC4	**		1.950	1.36	1.95	**	0.0080	0.192		NR	
								MLC5	**		1.800	1.44	1.88	**	0.0105	0.191		NR	
								MLC6	**		0.900	**	**	**	**	**		**	
12-8-66	131-2	B-58	48500	1.65	246	0.23N	1955:35	MLC1	**		3.200	2.19	2.85	**	0.0050	0.195	54.5	1428	NP
								MLC2	**		3.77	1.48	1.08	**	0.0015	0.195		PS	
								MLC3	**		3.370	2.17	3.37	**	0.0025	0.194		NP	
								MLC4	**		2.680	2.30	2.24	**	0.0070	0.195		NP	
								MLC5	**		3.140	2.70	2.24	**	0.0080	0.195		NP	
								MLC6	**		1.670	**	**	**	**	**		**	
12-8-66	132-2	B-58	48300	1.65	241	0.85S	2018:26	MLC1	**		1.490	0.93	1.49	**	0.0150	0.191	54.1	1449	NP
								MLC2	**		1.780	**	1.57	**	0.0140	0.192		NP	
								MLC3	**		1.650	1.10	1.45	**	0.0060	0.191		NP	
								MLC4	**		1.490	0.86	1.54	**	0.0155	0.191		NR	
								MLC5	**		1.590	0.77	1.23	**	0.0170	0.191		NR	
								MLC6	**		0.770	**	**	**	**	**		**	

\* - Nominal Offset

Table 3. - (Concl.)

Date	Mission Number	Air-craft	Alt ft	Mach No	Head deg	Offset miles	Boom Time Zulu	Micro-phone No.	Peak Amplitudes Positive (psf)	P1	P2	P3	Peak Amplitudes Negative (psf)	P1	P2	tau 1/2 sec	tau max sec	Delta T sec	Wave Angle deg	Ground Speed ft/s	Type Signature
12-21-66	172-2	F-104	29000	1.65	245	1.21N	1723:18	MLC1	**	**	1.95	1.430	1.65	1.41	0.0005	0.0015	0.077	45.8	1619	PS	
								MLC2	**	**	1.28	1.330	1.49	1.33	0.0020	0.0050	0.077			PP	
								MLC3	**	**	1.35	1.420	1.57	1.46	0.0020	0.0060	0.077			PP	
								MLC4	**	**	1.41	1.550	1.77	1.43	0.0010	0.0045	0.079			PP	
								MLC5	**	**	1.70	1.490	1.65	1.39	0.0005	0.0050	0.078			PS	
12-8-66	221-1	B-58	47200	1.40	246	0.74N	1643:36	MLC6	**	**	**	0.956	**	**	**	**	**	**	**	**	**
								MLC1	**	**	**	2.070	**	**	**	**	**	**	**	CO	
								MLC2	**	**	**	1.460	**	**	**	**	**	**	**	CO	
								MLC3	**	**	**	1.470	**	**	**	**	**	**	**	CO	
								MLC4	**	**	**	1.800	**	**	**	**	**	**	**	CO	
								MLC5	**	**	**	1.580	**	**	**	**	**	**	**	CO	
								MLC6	**	**	**	1.760	**	**	**	**	**	**	**	**	

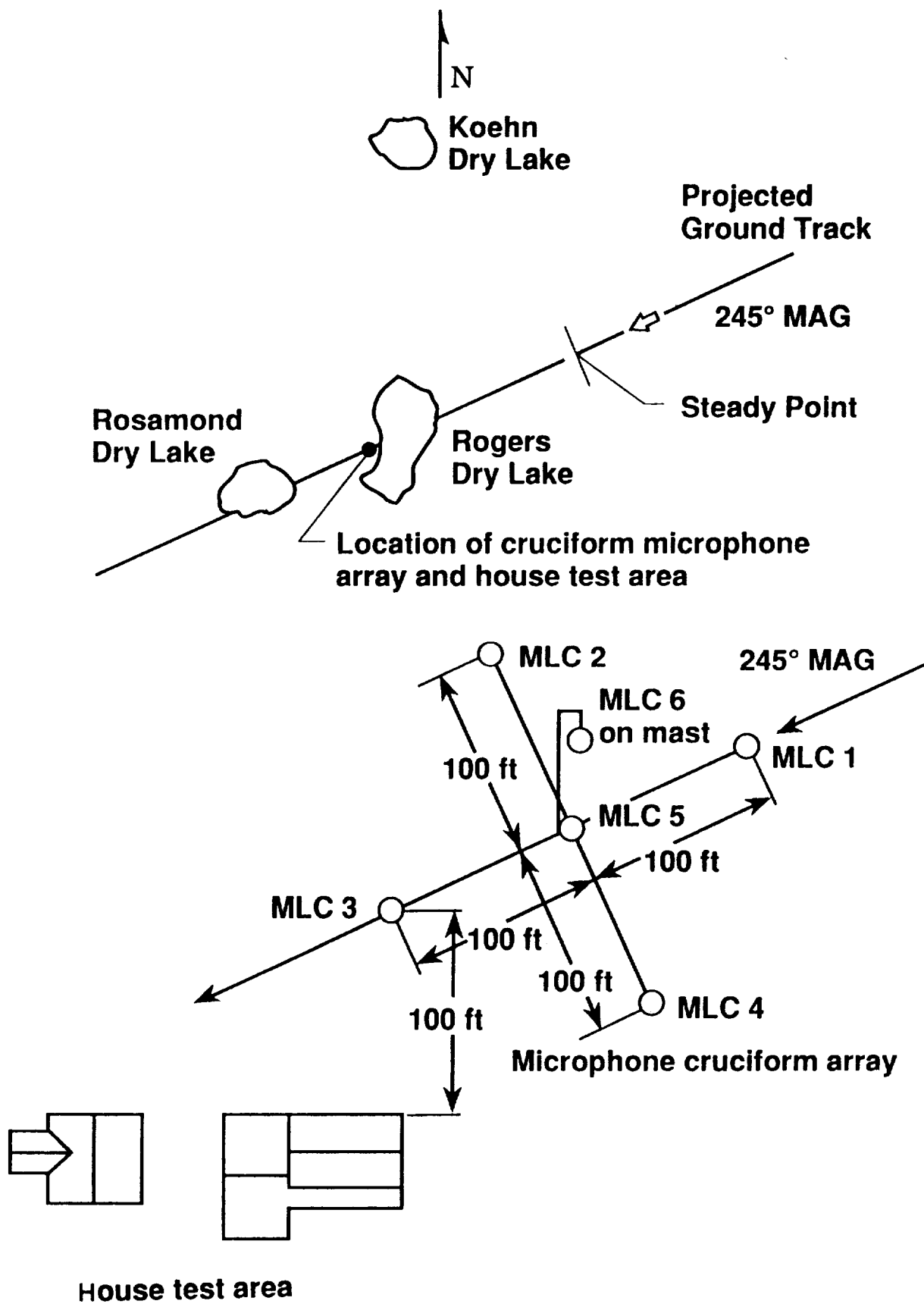
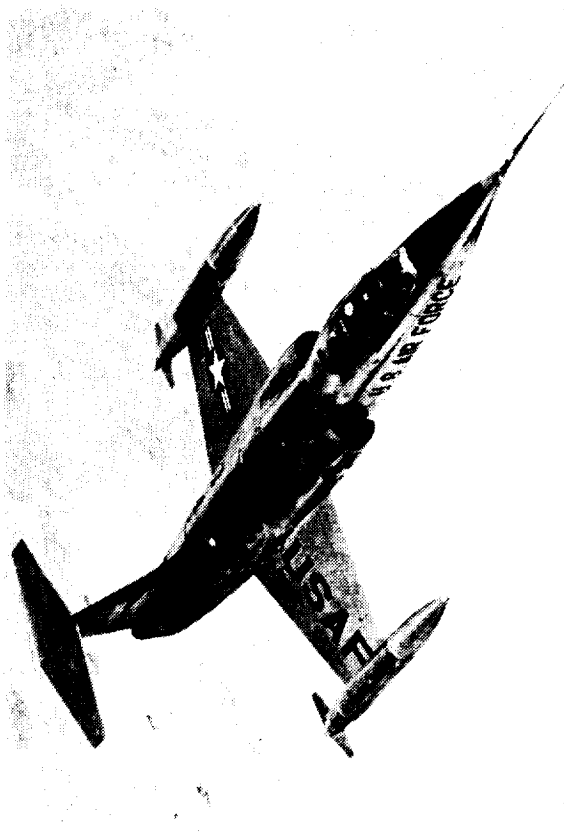


Figure 1. - Experimental layout.

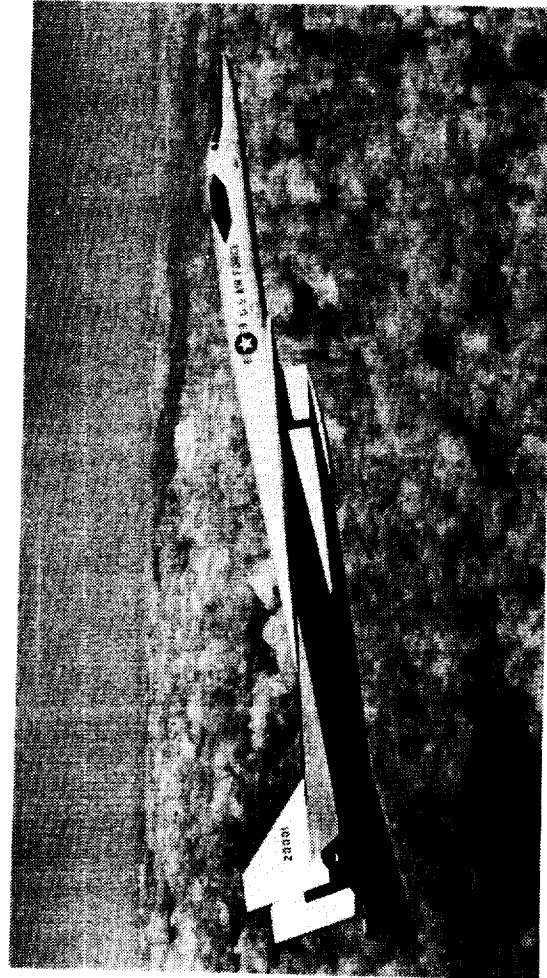


(a) F-104



(b) B-58

ORIGINAL PAGE  
BLACK AND WHITE PHOTOGRAPH



(c) XB-70

Figure 2. - Photographs of Test Aircraft

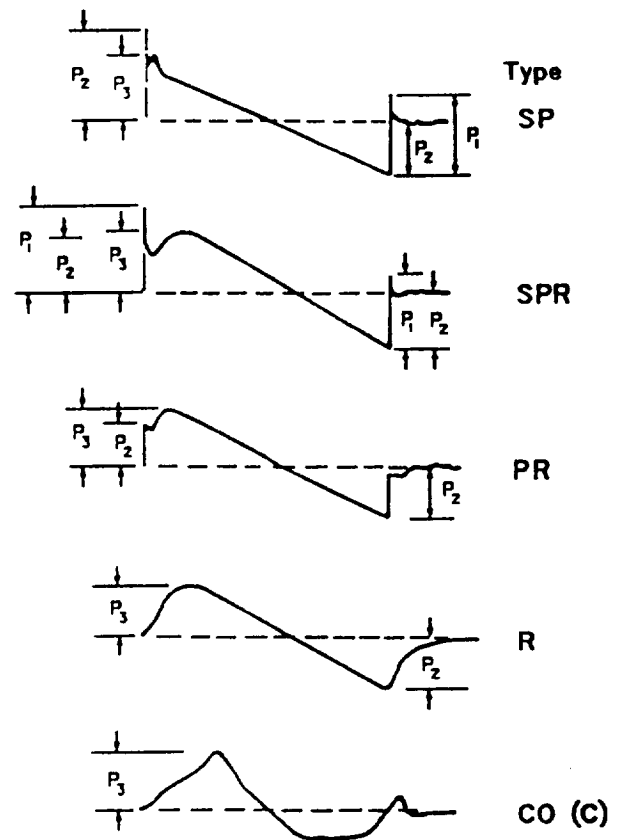
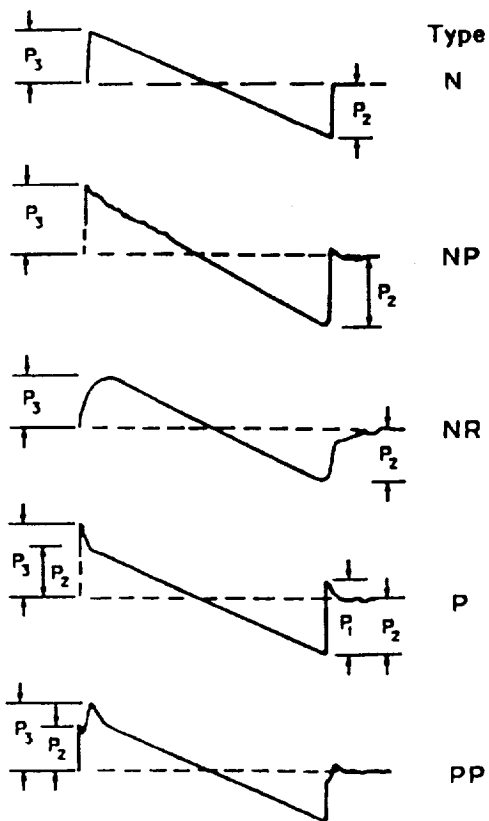
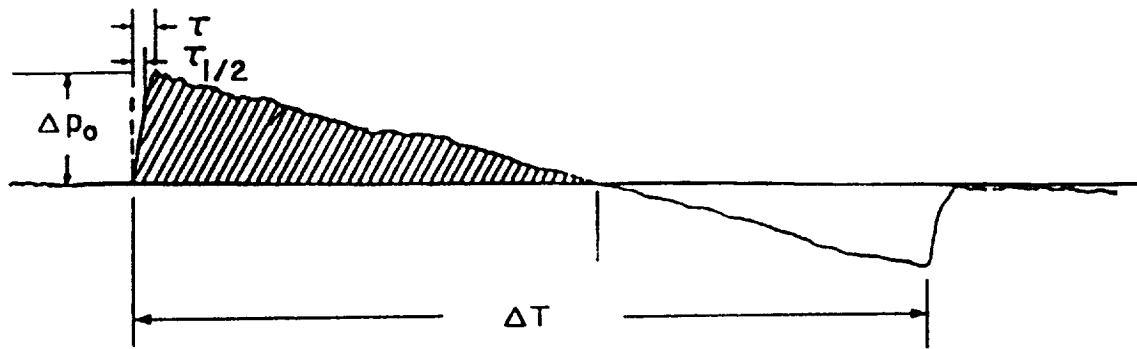


Figure 3.- Diagrams of waveforms which represent the various categories of measured sonic-boom signatures.

# Report Documentation Page

1. Report No.  NASA CR-182027		2. Government Accession No.		3. Recipient's Catalog No.	
4. Title and Subtitle  Sonic Boom Signature Data from Cruciform Microphone Array Experiments during the 1966-67 EAFB National Sonic Boom Evaluation Program				5. Report Date  May 1990	
				6. Performing Organization Code	
7. Author(s)  H. H. Hubbard* D. J. Maglieri**				8. Performing Organization Report No.	
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9. Performing Organization Name and Address  *Lockheed Eng. & Sci. Co.    **Eagle Eng. Inc. 303A Butler Farm Road        2101 Executive Drive Hampton, VA 23666            Hampton, VA 23666				11. Contract or Grant No. NAS1-19000 NAS9-17900	
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12. Sponsoring Agency Name and Address  National Aeronautics and Space Administration Langley Research Center Hampton, VA 23665-5225				14. Sponsoring Agency Code	
15. Supplementary Notes  Langley Technical Monitor: Kevin P. Shepherd					
16. Abstract  This paper provides tables of measured sonic boom signature data derived from supersonic flyover tests of the XB-70, B-58 and F-104 aircraft for ranges of altitude and Mach number. These tables represent a convenient hard copy version of available electronic files and complement preliminary information included in a reference National Sonic Boom Evaluation Office document.					
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